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CHIEF OF COMBINED OPERATIONS REPRESENTATIVE

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Ref: N/1/116.

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Commander H.C.A. Moolley, T. ...

PROTOGRAPHE OF THE ALL DAY THOUGHT B

broadcast appeal was made in Englished to the general public asking for thetagra; and the decrease.

C.O.H.Q. are most anxious to know that there are some taken to collect photographs from the mastern relationship wherever emphasis has been given to any martinular area to the measure tast. They would also like to know, if possible, if any plotographs with particular reference to the mostline of Japan and neighbouring is and a rea in the O.I. additional.

I show the grateful if you would expedite this matter as it is of some argency.

9. Sysouby.

It.Colonel, for C.C.O.A.

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United, 64, Union 2080. About His loud Liebengs and The Paris

The attached copy of letter from the Stitlet Joint Staff Elssion is forwarded for your is cornected. Domon C. Lee, Major, AIS Chief, Secretaria Attachment: Ltr. dated 10 June 1944

BRITISH JOINT STAFF MISSION
OFFICES OF THE COMBINED CHIEFS OF STAFF
WASHINGTON

Ref: Y/2/48.

Col. G.Z.Buxton,
Acting Director,
Office of Stratesic Services,
25th & E.Strests, Y.W.,
Washington, D.C.

Dear Colonel Buxton,

Twrite to acknowledge with thanks your letter of the 7th June, and much appreciate your kind and valuable assistance in arranging that the equipment requested will be sent to the Chief of Combined Jerstians.

Yours sincerely,

H.D. TOLLELACHE, Captain, Royal Navy.

Chief of Combined Operations Representative.

Millerte

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7 June 1944

British Joint Staff Missism Offices of the Combined Chiefs of Staff Public Health Service Building Venhington, D. G.

Attention: Captain S. D. Tellamacke

Gentlement

In compliance with your request deted 29 May 1944, action has been taken by this agency to procure the component covered by the list attached thereto.

It is, of course, difficult to give you may definite information at this time as to the date of delivery. However, the equipment will be assembled and delivered as soon as possible. Any questions which may come up in connection with this satter may be taken up with Mr. W. M. Mayo, Chief, Procurement and Supply Present, Office of Strategic Services.

We beg to note your statement that it is not intended to establish this method of obtaining supplies as a standard procedure.

We are pleased to have participated in the visit of the S.R.U. Mission, and to have been able to exchange operational mean with them.

Sincerely yours

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OFFICES OF THE COMBINED CHIEFS OF STAFF

WASHINGTON

29th May, 1944.

Commanding General, Office of Strategic Services, Washington, D.C.

on behalf of the Chief of Combined Operations I would like to express our thanks and appreciation for all your kind co-operation in connection with the S.B.M. Mission, who have now completed their tour in the United States.

We think their visit has been most successful, and areat interest has been shown in their demonstrations, and we are indeed grateful for the head and cod offices which you have given to as and which have contributed so targety to the success of the visit.

I attach herewith a list of the equipment which, during their tour, this listion have seen, and which we feel would be of great interest to the Chief of Combined Operations in London. We would be most grateful if you would be kind enough to arrange for the items shown on this list to be forwarded to the Clief of Combined Operations, C.O. Stores Depot, jest Leon, Hants.

I would emphasise that our wish for these samples is an emergency measure, and it is not intended to establish this method of obtaining supplies as a standard procedure. He would, therefore, be very grateful if you could see your way to arranging this.

Hollen

Thanking you again for your kind co-operation,

H.D. TOLLEMACHE, Captain, Royal Navy.

Chief of Combined Operations Regresentative

Copy to: Payr.Cdr. H.G.A.Woolley, R.N. Squadron Leader F.Levy

Lies A

Item Quantity Stores Reference 1. Shark Repellant 6 2. Vinol Water Bag 2 Sample 283 (smergence Resour Service) 3. Styrofoam Sample JarCnly if bulk average 4. Goodyear Sole 2 pairs Army special equips 5. Covers, WaterproofPistol 1.00 P.Q.D. No. 3778 6. Machete, U.S. True Tempor 2 TT-18-1943 7. Sleeping Dag and Materproof Cover with zipper 2 Army special equippe	ur obles
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ll. Socks, cushion sole 2 mairs " "	
12. Sheets, Vinol, 36" or 48" 6 yds. 3/10:0 gramge	
13. Sheets, Vinol, 36" or 48" 6 yds. 8/1000 mage	
14. Tape, waterproof, pressure sensitive for use with items 13 and 14	
15. Nirror Wellograph 2 Emergency Rescue Se	ervice
16. Plastic Lonocular 2 Major Geoffries, G. Hq., S. Building	.S.S.,
17. Hammock (nylong) 2 Seen at E.C.Hq., Cu	entico
18, Signal Wand 2 Made by Signal Serv New Jersey, 1239 Sp Avenue	
19. Damage Control Light 2 Mavy, type 25 lbs.	
20. Seven man rubber boat 1 Naval pattern made Firestone	
21 Outboard motor platform 1 22 Johnson (LOTIF waterproofed)	

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25.	U.S. Army blasting machine	2	10 Cap., Type No. 1991 No. 2 Made by Clostric Co., St. Louis
24.	U.S. Army Blasting Galvonometer	2	Model No. 6.6. The Lionel Curp., Now York
25.	M2 Fuse Lighter	2	
26.	Firing Device MK3		Automatic fermerature for- troi Co., Piludelphia
27.	A.Film, Amphibious Reconnairsance Patrol	l copy	Colored, 1.7.7Ah-4
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34.	Pamphlet, "Icon-rephy"	12	
35.	Pamphlet, "Perspective thru Jerisocpe	n 12	
35.	Pamphlet, "Pilots Icenometer"	13	
37.	Fluorescent tape, 3"	1000 ya	rds to the same of
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- 40. Marine Corps wire outters
- 41. Matches, waterproof
- 42. Cardboard morsing card

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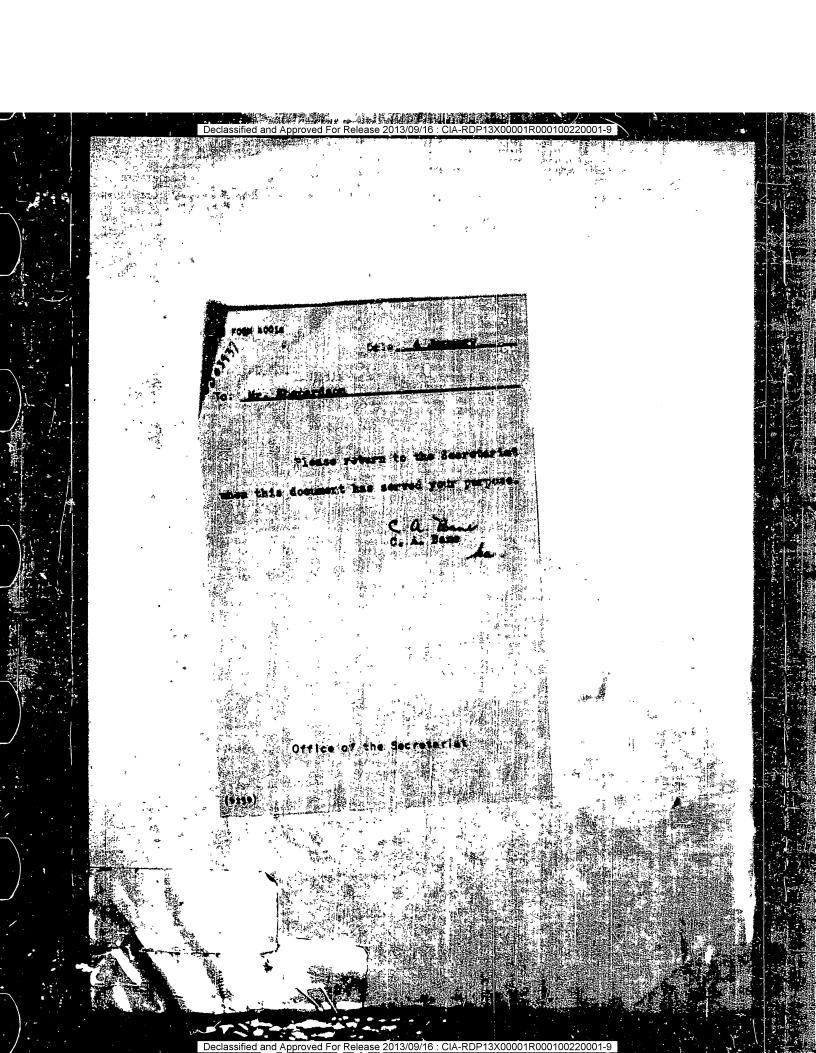
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Designations see



BRITISH JOINT STAFF MISSION OFFICES OF THE COMBINED CHIEFS OF STAFF WASHINGTON

17th December, 1945.

· Landan

Carrier Tomas

Commanding General, Office of Strategic Services, Washington, D.C.

With the compliments of the Chief of Combined Operations Representative.

com no J.3...

o.o.H.Q. BULLETIN No. W/1.

JAPANESE DEFENCE POSITIONS IN NEW CUINEA

and

SMOKE-LAYING TO SCREEN LANDINGS.

Issued by:

Complified Operations Headquarters,

COMBINED OPERATIONS HE DOUGHTERS

BULLETIN No. W/1.

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The following information has been received from G.M.Q.

CUINEA, centred on roads which are likely lines of enemy approach.

- 2. An interesting point to note is that both in the Scuth West Pacific area and Burma the Japanese schotimes site machine gun positions in groups of two to five. In one large locality (Diagram A1) now being dug in Burma there are seven pillboxes in an area roughly 200 yards long by 100 yards wide. Some of these of course may be alternative positions.
- the defended town of Lae and is constructed in a plantation area. Its primary task is to provide ground resistance. A strong trench and bunker system radiates from the house in the centre and it may be assumed that most of the bunkers contain gun positions. A trench system with revenuents is on the East and West sides of the house. Seven machine guns are near the West trench. Assume protection is provided by a light man, gun East of the house and two A.A. guns to the North.
- 4. A.A. defence appears to be the primary task of the position situated one mile from Lac on a plateau slowing slightly West. (See diagram B1). To protect the name guns an intricate trench system has been constructed, and clearings have been cut in the plantations to give better fields of fire. The energy have built a platform in a tree 200 yards North East of the Eastern tip of the rifle range, which serves as an observation post.

Snoke Laying for Landing.

- Japanese plans for the use of smoke to screen the landing of troops and supplies from air attack at and near Lat, New Guinea, are revealed in enemy documents which are paraphrased below.
- 6. Three squads were selected for the operations under the direction of a Lieutenant. Each squad was given the task of screening a separate area. (See Diagram A2).

Personnel and Equipment.

			Equipment
Smind	Strongth	Craft	
Mo. 1	1 Officer 2 N.C.Os. 20 men	3 Collapsible Boats If modded, an armouned boat will be allotted	(1)200 floating smoke candles (ii) 10 large non-floating smoke candles (iii):60 small non-floating smoke candles.
10.2	1 N.C.O. 15 rien	3 Collepsible Boats	(i) 100 floating snoke candles (ii) 7 large non-floating candles (iii) 120 small non-floating candles
50.3	1 N.C.20.	3 Collapsible Hoats	(ii) 7 large non-flecting could could be could be could non-flecting could non-flecting could non-flecting

- 20 -

In addition to the equipment shown above, LOO floating smake candles were to be held in reserve.

Laying the Serson.

- 7. The signal for the ecrimocatent of the operations will be a red dragon parachute flare. All stake enadles will be lighted at the same time.
- by the beats over the designated water area. Smoke operations will also be carried out ever land according to circumstances. (See Diagram B.2.).

Issued by:

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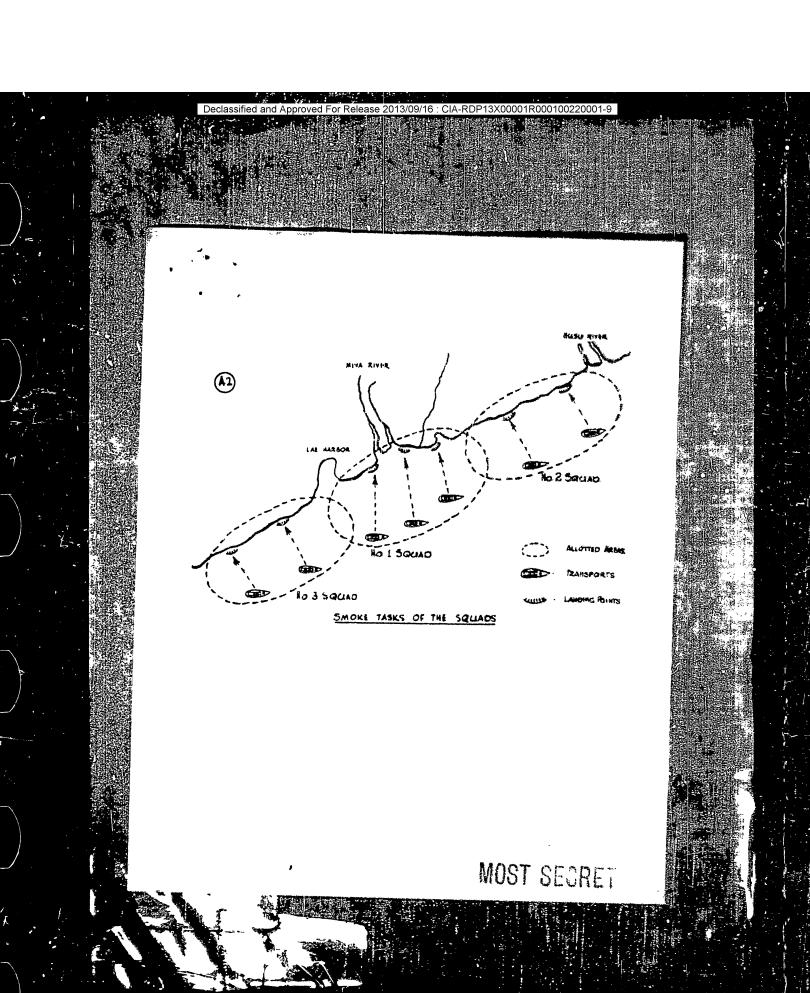
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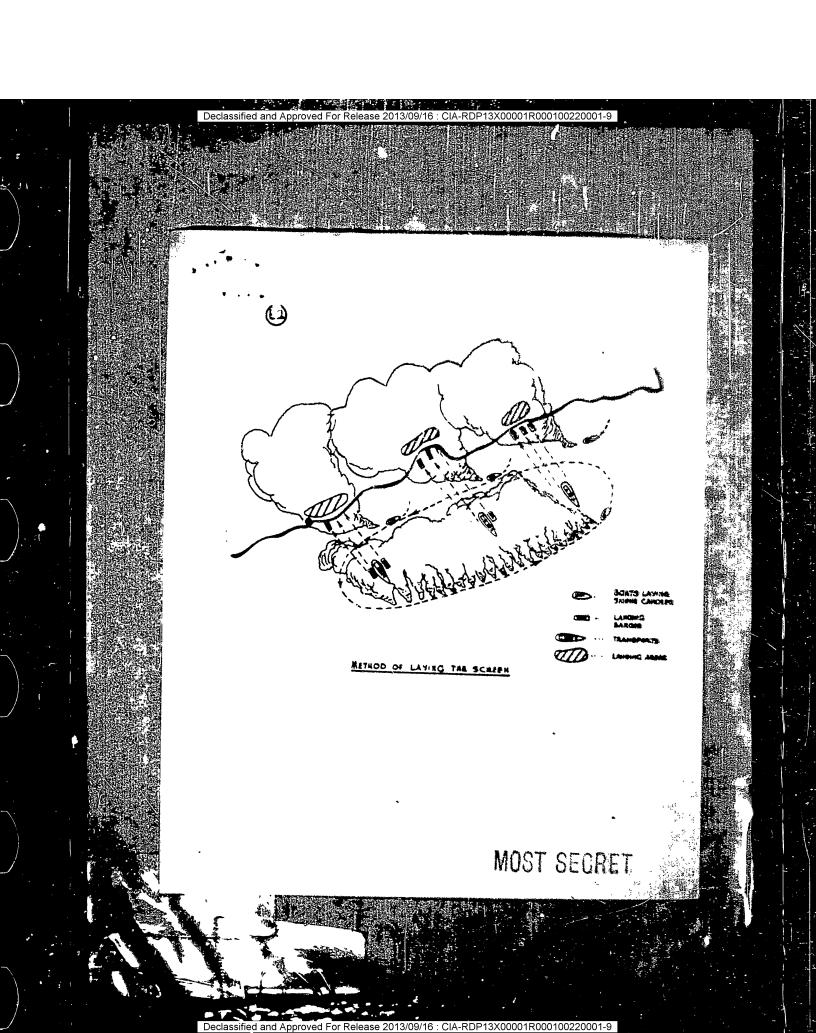
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THE

Commander H. G. A. Woolley

22 December 44

January Epin

The Secretariat

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British Combined Operations Headquarters Workbilly Information Summary.

The distribution of the C. O. Headquarters Monthly Information Summaries, as proposed in paragraph #5 of your memorandum of 19 December, seems to be perfectly proper. In those cases in which you believe that there is information of particular interest to the Director, you might wish to send the Summary initially to the Secretariat for transmittal to the Director.

> C. A. Bane Lt., USBR Chief, Secretarist

SECRET

OFFICE OF STRATEGIC SERVICES WASHINGTON, D. C.

December 19, 1944

From: To:

Commander Woolley

Lt. Robert Thrum,

Secretariat

Subject:

British Combined Operations Headquarters

Montaly Information Summary.

C. O. Headquarters monthly Information Summaries have hitherto been sent direct by G. G. G. R., Washington, to the Doputy Director, U. S. 3.

C. C. U. R. nas decided to send any material for U. S. S. through me in the future so that I may have knowledge of the material received.

3. The Monthly Information Summary #13, together with Bulletin X/41, is enclosed.

It is requested that I may be informed to whom I should forward subsequent Summaries and other similar material received from C. C. O. R.

The Summary and Bulletin attached would appear to be of interest to:

Maritime Unit
Operational Groups
Research and Development Branch
Naval Command
Special Projects

H. G. A. Woolley

SECRET

December 19. 1944

Prom:

Commander Woolley Lt. Robert Throm,

Secretaries

Subject:

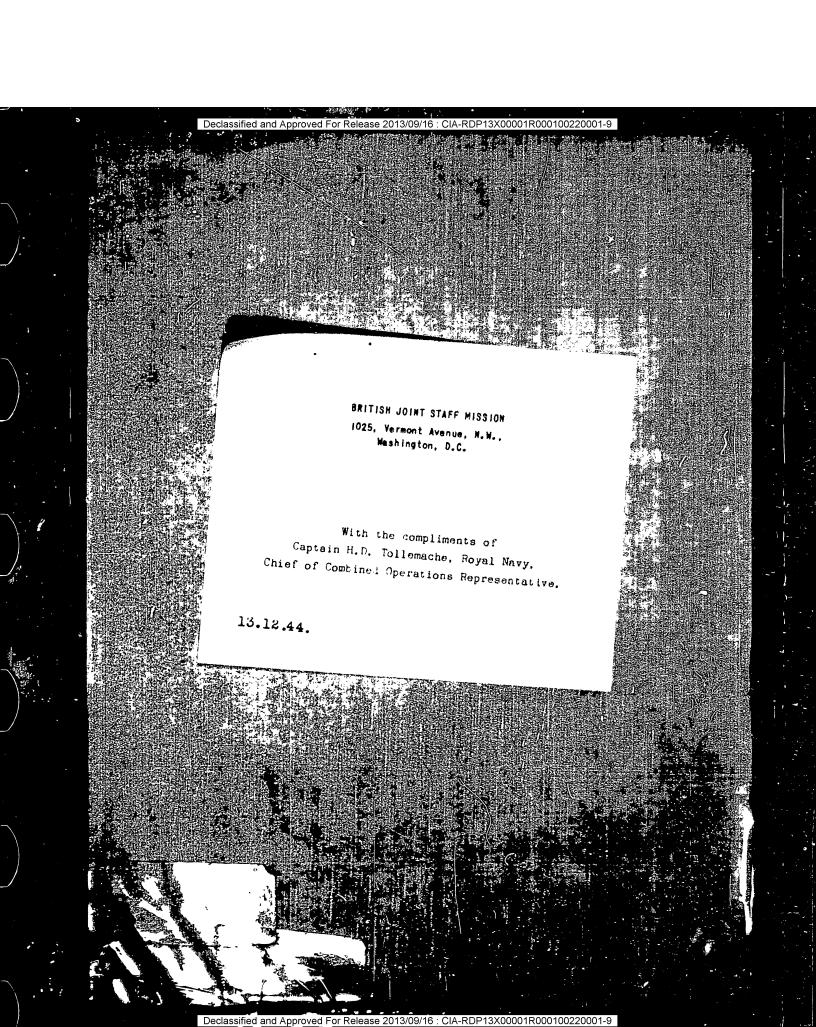
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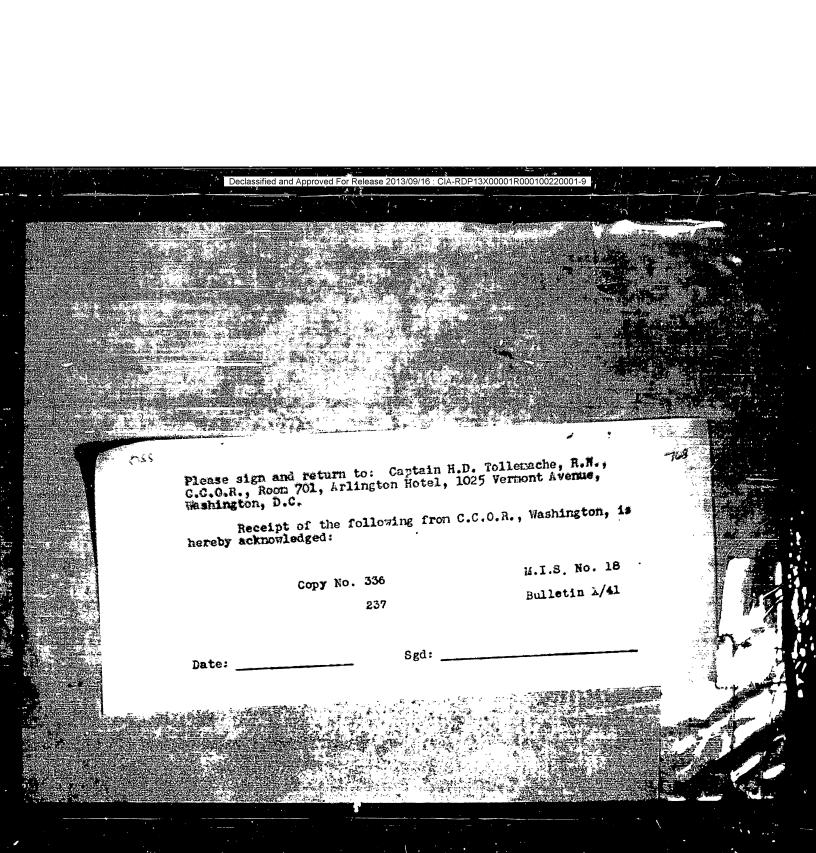
- 1. C. O. Meadquarters monthly Information Summaries have hitherto been sent direct by C. G. O. R., Washington, to the Deputy Director, U. S. S.
- 2. C. C. C. R. has decided to send any material for O. S. S. through me in the future so that I may have knowledge of the material received.
- 5. The Monthly Information Summary #18, togetner with Bulletin X/41, is enclosed.
- 4. It is requested that I may be informed to whom I should forward subsequent Summaries and other similar material received from C. C. O. R.
- 5. The Summary and Bulletin attached would appear to be of interest to:

Maritime Unit Operational Groups Research and Development Branch Mayal Command Special Projects

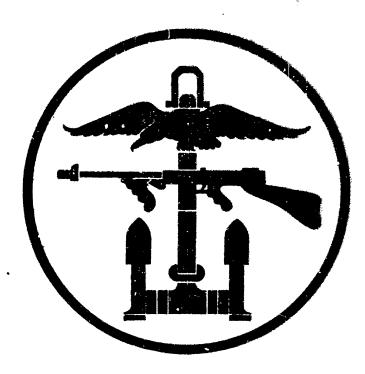
K. C. A. Woolley

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No. 18

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BULLETIN X/41

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Distribution

COF41 Monthly Information Summary No. 10 has been distributed to all on the list supplied with No. 9 and the following :-

EGAIS (Ops) far Office Q(M) 30 Corps HQ, Eastern Command "Northern Command

Scottish Command

Southern Command

" Wostern Command

" Northern Ireland District

* London District

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In reply, quote :

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Combined Operations Headquarters, IA Rickmond Terrace, Whitehell, S.W.L.

15th Merch 1914.

COHQ

MONTHLY INFORMATION SUMMARY

No. 10 of the COMQ Monthly Information Summary is forwarded herewith. Such of it is TOF SECRET, and special care should be taken to ensure that no unauthorised person has excess to it. For distribution, see everloaf.

2. Most of the information has been issued more fully in the COHQ Bulletins to which reference is made. These have been distributed according to their contents, but any recipient of this Summary who requires a Bulletin which has not been sent to him should apply to COHQ, stating the Series letter, the number, and the title of the Bulletin.

Chief of Staff for CHIEF OF COMBINED OFFRATIONS.

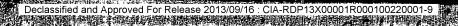
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Signaturo

Address

This is to be returned to :-

Despatch Defartment,
Combined Operations Headquarters,
Li Richmond Services



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MID 311.19

12 April 1944

SENTER Documents from the British Joint Staff History

TO; Director, Office of Strategic Services -- TRACTOR
Linison Officer with 0.3.5., (Sept. Madeira.

l. Enclosed her with are the following documents which have been received from Captain M.D. Tollomeche, Offices of Combined Chiefs of Staff, for transmittal to year

C.O.H.Q. Bulletin Y/23 M.I.S. No. 10

2. It is requested that the enclosed receipt from Captain Tellemanhe be acknowledged and returned to him direct at the address indicated,

For the A. C. of S., G-2:

FRANK E. VOYSHY, let Lt., Inf., Commonwealth Section, Foreign Disison Branch.

Excis: 2 decuments
Rec. for ret. to Capt. Tollemache

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COMBINED OFFICATIONS HEADQUARTERS

MONTHLY INFORMATION SUMMARY NO. 10.

Fobruary, 1944

PART I

TACTICS, TECHNIQUE, AND EQUIPMENT,

Bren LMG Functioning After immersion in Son Water

Tri ls in the which East have proved that while clear salt water does NOT affect the functioning of Bron LMGs, guns which are immersed in water containing and in suspension (as would be found on a sandy beach in rough, weather) are liable to stoppages owing to :-

- (a) failure to reel:
- (b) failure to strike cap or to strike hard enough to detenate the cap; or
- (c) failure to strike after firing a single rount.
- 2. All stoppages were trice to smill which was too fine to be seen, but which could be felt on the mechanism.
- 3. Efforts are toing made to find a simple method of over-coming this difficulty, but in the mountime, all possible steps must be taken to prevent suns becoming immersals

(CR 804/44)

Training Landing Craft Crew: in West-handling alongside large Vessels

- 4. Commander, Task Force 11, in a report on the occupation of Baker Island in Sept, 1943, says that on this operation it was found that, under conditions of heavy swell, considerable damage was done to craft, in particular ICM, due to the battering they received when alongside unloading ships.
- 5. As a result, it is recommended that all crows for landing craft be given intensive training in boat handling alongside large vessels. The fact that crows may be experienced in handling their craft in surf does not mean that they can handle their craft efficiently alongside large ships in a seaway. Training is desirable, therefore, under both these conditions.

(CR 1297/44)

TO. C.I.

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(a pendix C.1) 7. Handcarts - Inal A	. 3
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SECTION - D.	
WE PONS AND EXPLOSIVES	
R.A. 13. Breaching Concrete Walls by Gunfire	• 0
R.E. 16. Passage of Underwater Obstacles	. 9 9 . 10
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SECTION - E.

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COEQ, MIS No. 10

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Signals (Bullotins V/3 and V/L)

- /6. Two COHQ Bulletins on Si mals have been published since the last issue of this Summary.
 - 7. Bullotin V/3 consists of :-
 - (a) A diagram showing a possible organisation for Command and the control of hireraft in a short-range amphibious operation.
 - (b) Notes with explanatory diagrams on the use of No. 19 (MP) and No. 76 sets as wireless handcart stations.
 - (c) Notes on the revised operational employment of Teach Signal Sections, R.Si-mals.
- 8. Bulletin V/4 comprises extracts from a report in operation SHINGLE made by the officer commanding the military 19 Unit Signal

(CR 20,148/43)

Construction of Airfields in the South Pacific Area (Dulletin T/11)

9. Describes the air support provided for the landing at Guadalcanal and the construction of airfields in the Scuth Pacific area. Compiled from answers by Brigadier N.K. Jelly, OME. RM, Liaison Officer with USA HQ, South Pacific area, to a questionnaire by Director of air, War Office.

(CT 202/44)

C.O.H.Q. MIS No. 10. TOP TOTAL

SECTION A.

SHIP AND CRAFT.

1. Landing Barge Kitchen - (L.B.K.)

Ten Landing Barges - Vehicle, ar. being converted for the purpose of feeding ferry crews in teach operations. Each vessel has been planned to prepare 1,600 reals per day, on the basis of two meaks per day for 800 mean.

The messing equipment includes the following: -

(c) 123% range oil fired.

(t) 6 Boiling coppers. (40 gallon).

(c) 4 . hot prosess, each taking the dishes.

(d) A Licter 72 K.W. Gener tor.

(f) Special fine to the galley, me a and stor rooms.

Oth r details of the L.I.K., include must instacommodation for the ring. I do cobin for any officer. The targe itself will be fitted with two in incomed twin rudder, and carry 7 tons of diselection of frach water.

2. "Mulock" Rump Extendion.

(Vile Appendices w. nd wel)

(II.I.S. No. 7. II, para.3.)

Proliminary details or the which be of the "Mulock" rump Extension which has been detaloped to decrease the clope of rumps of L.C.T. grounded on first beaches. The development arose from the difficulties one untered in mberking and disemberking certain vehicles and artillary equipments which tinded to belly at the sharp angle formed between the dock and the rump, or the rwise fould are to the angle between the rump and the beach.

The extension is in three separate units, each of which can be manhandled when placing in position before lowering the ramp. The details a produced in the Appendices are provisional and may be subject to make modifications. The draughts and angles indicated are for craft fully liden, and it should be remembered that the angle of the ramp will become progressively steeper as vehicles atomed in the forward part of the hold are disembarked.

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SECTION B. SMILL BOATS.

NIL.

SECTION C.

VEHICLES - WHEELED, TRACKED AND AND THE HIBIAN.

3. Naterproofing of Vehicles and Equipment.

(vide appendices h.). 8.2 & 8.3.)

(M.I.S. No. 8, II parm. 7.)

Lists showing the resition to date regarding the development of waterproofing rehemes for 'a' and 'B' vehicles and Special Equipment of an electrical in appendices B.1, B.2 and B.3 respectively.

4. Classification of awkwrd Vihieles.

(Tris.)

(Bulletin in proparation, No. X/72.)

Extensive in estigations are being made to excertain what difficulti are to be encountered when alsombarking cortain awkward v mades of a conjugate the control of the beaches from L.C.T. The investion themselves and first on the drawing board and to a fillowed when necessary by processed. tests.

A Bullitin is in proper to a found in the bullited form those venicles no far tested, and sing the flow to possible the which troy and to successfully discobarked for 1.0.7. 3. 4 ml 5. The Bulletin will include details of the minor medifications a proper of their couried but by Unit personnel which are necessary to lit in the classits.

5. Aids for 'B' Venicles in Lease s :...

(Trials)

The following device: for fitting to the wheels of 'B' vehicles to assist in negotiating locse on and only surfaces have been found to be unsatisfactory in recent trials:-

- (a) Bower Att chant (small spade)
 (b) Bower Att chaint (large spade)
 (c) Opperman Att chaent.
- (d) Sand Attaonment.
- (e) Bradney Attachment.

Hendcorts - Bucyant.

(Vide appendix C.1.)

(M.I.S. No. 7, II para 10 & Bulletin X/12.

A report has been received from Canada of a prototype handcart .. which has been improvised from a moulded plywood recce boat for which there was no requirement.

The boat was cut in two, a new stern fitted, and mounted on an iron frame which formed the axle for two standard army bicycle whoels. The frame and wheels were designed so that they could be easily detached in order to ermit the bodies to be nested for ready transport.

The weight

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Section O (continued)

Handearts - Buoyant. (continued)

The weight of the completed handcart is 32 lbs. and it has a carrying capacity of 214 lts. with a freeboard of 6". Its dimensions are - length 48", tam, 32" and depth 12", and its performance over rough terminary in the water appears most satisfactory.

The report stresses that the prototype is little more than an improvisation, but a uld be readily developed should it may a requirement.

7. Henderts - Indian.

(Vide Appendix C.1.)

(MIS No. 7, II para 10 & Bulletin %/16.)

* further report at mendearts, has been received from India. The cirt, hand, N. I Mk. I, which has been introduced there, was evolved in tribing for Combined Operations, but is also intended for use in juncte warfare.

intended to replace these with motor cycle whiels as and when they become available.

It is unforsteed that there is no infention of producing Indian handcarts in this country, or that they should replace kirborne Hindearts.

8. Tanks - Ponetr ti n .f Wire Obstacles.

(Trials)

(a) Object: Tricls have been carried but to determine whether the standard 30-ft German wire obstacle will stop a Churchill tank.

(b) Statement:

- (i) When weding: The tank crossed and recrossed the wire without difficulty. While it was running down the length of the fence, the waterpropfing fabric covering the smoke generator at the rear of the tank was ripped in three places. This did not affect the performance of the tank at all. The wire was crushed during the passage of the tank, but by virtue of its inherent springiness resumed a crushed height of 2 ft.
- (ii) On land: Triels on sand and turf surfaces above high water were completed without incident.

(c) Conclusions:

It was concluded that this type of wire obstacle does not constitute an obstacle to a waterproofed Churchill tank either under water or above high water mark, provided the ground is reasonably firm.

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(Trials)

Section C (Continued)

9. Loading Special Assault Equipments into LCT

(MIS No. 5 IV para. 7, AIS No. 9 II paras 6, 7, 8, 16 \pm 19 and Bullotin X/12).

(a) Object:

Loading trials have been carried out with LCT IV and V to determine their stowage capacity in respect of Special Assault Equipment.

(b) Conclusions:

- (a) L.C.T. IV :-
 - Five AVRE can invariably be stowed. Six could however be stowed provided that not more than one of them is a long vehicle, e.g. SBG Bridgs, AVRE/PLOUCH etc.
 - (ii) Three PORPOISES can be leaded with any combination of five or six vehicles unless the leading two vehicles are CRLBS, in which case the room required for the CRABS to manageuves would relace the number of PORPOISES to two.
 - (iii) Two AVRE SLEDGER can be stowed alongside each other behind either the first or sec nl pair of venicles but the maximum load will be reduced to five vehicles.
- (b) L.C.T. V :-
 - Four vehicles each of 30/40 tens can be stowed with the following limitations:

Two wide vehicles carnot be stowed in front of two long devices, e.g. two CRLBS in front of an SBG and a GOAT. If two long vehicles are essential, one wile vehicle can be stowed centrally forward. It has been recommended that in the Assault Wave, three vehicles only should be loaded for the sake of rapid disembarkation.

- (ii) The fire buckets in the bows must be removed to allow CRABS to manoeuvre. The CRAB is always a difficult load and is prone to slip when loaded last and the craft assumes a list. The loading can be assisted by using the LCT checks to decrease the vehicle's turning radius.
- (iii) PORPOISES cannot be loaded if two CRABS are to lead the disembarkation owing to the space required by the latter to manocurre. However, up to two PORPOISES can be loaded if all the four vehicles are short, e.g. AVRE, AVRE/FASCINE, AVRE/BULLSHORN.
- (iv) No SLEDGE can be carried unless the rear vehicles are both short. When both rear vehicles are short one SLEDGE can be loaded provided the leading vehicle is stowed on the same side as the SLEDGE but askew.

 Failing these conditions, the addition of a SLEDGE will necessitate the recoval of one vehicle.

BULE A Purther Cetails of those continents, giving sises, vill be published as on addonous to Bulletin X/12.

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1 Section C (continued)

13. Carriage of E350 Sr. ke Cenerator Trailor in L.C.T.

(Tel:15)

(a) Object:-

Tricls have then error doubt to letermine Elmitations in the and richtion and line sectoral nor to following equipments from LET 3, 4 4.2 5.

- (i) 3.H.C. 22 ton 6 x 6
- ESSO St. & Gener to Trailer. (ii) ESSO St. & Gener to manufed n F.W.D. 4 x 4.

(t) Results.

- Elerketi n. P.th equip its orn to orthofost rely which whereked int. I.C.T. 7, 4 or 15 arised at and equip with a tanders "Mulcok" type reject not not if a his equipped, it. (i) the require of the atolitic following exactly right to the stall right exactly.
- (ii) Disalerection. The series in the constitute * wkward volider sold let income a larketing will be given in the builtin referred to a. Paras Later.

11. Die reing Triele f Rebr Equipe at A. N. . & Ma. III (Esty ments).

Triels were corrier out of the corkin there due not from 1.0.1. 7. 4 or 1 7, with the fell will, roults:-

- For all list rection, the non-pack are cart to not to all stowed in the cutin.
- Baby Ma joic: -2.

(on 1/200 beach)

- (a) Will hat list the off my craft/with ut army extinsion
- (t) Will district of L.C.T.3 with remplextuding but is limited to 1 in 80 teach using to 4'C" + 10" wave wading lepth.

(Vide Appending C2 & D) 12. M.29 Light Cargo Carrier (Amphibious Version)

(a) Origin.

The U.S. Light Cargo Carrier M.29, previously referred to as the "Weasel", was originally designed for use in deep snow and mountainous country and was consequently made as light as possible and provided with wide tracks, with the result that a very low pressure was obtained.

For this reason, the possibility of the M.29 operating in difficult conditions of mud, marsh and swamp, were investigated and showed such promise that it was decided to produce bow and stern assemblies which could be fitted in order to make the vehicle amphibious and consequently more generally useful for terrain likely to be encountered in the Far East.

C. H.C. MIS No. 10. TOP STORM

Section C (continued)

M.29 Light Cargo Carrier (Emphilians Version) (continued)

It has since then decided that these assemblies should not be produced as additional equipment, to be used when required, but to produce a version of the M.29 fully converted as an amphibian.

It should 't noted that the illustration in A pendix D shows the basic vehicle and not the modelia as version.

(t)Data.

The full win — this rollived from america give some of the mire important char eteriotics. Full specific tion and late will be contained in Dulletin $\chi/26$ [Aughitians Vehicles].

#.1 t, :.ctt 4,485-1ts. Payload include crew f 2 1,200 tans Gr of Tital 5,685-11s. Le. th (rulers st well) 1732 Le. th (rulers fitted) 1882 m Wilth. 62* Grean's clearance -106" Petrol correctty -Potril c ...suritiin- $R.L. = (.ver_L = f.5..._{1.5},) = 175 tills.$ Frontjers - Unladen F rwurd - 12}" Mt - 15" Firward - 11" - Lalun Aft - 10" Wilth of track 15" stundard 2.38-15s. per sq. ia. Trick procure By tracks only. Pripul in in water -Stelring in land - Stelring in water -Two steering levers Twin rudders at stern operated ty driver. A towing hook aft, a power crossen forward, and a hand

N to. At we figure apply to vehicles having standard 15" track. A 20" track can be fitted optionally, in which case certain of the above late varies.

(c) Performance.

(a) On land. The venicle has a lend speed of 36 m.p.h. approx. over herd surfaces. The rulder are hinged, thus decreasing the likelihold of damage to them whom descending steep gradients. The vehicle's capabilities of crossing swampy and muddy ground are good, but are largely governed by the ability of the driver, as it appears that in these conditions the vehicle needs careful handling. Owing to its low ground clearance tree stumps and smaller objects should be avoided.

operat à til . jume are provided.

(b) In water. The M.29 has a speed of approximately 32 m.p.h. in calminiand water. Information as to the seaworthiness of this vehicle is being obtained but it can be stated definitely that surf or highly turbulent waters should not be negotiated.

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TOP STORE

SECTION D.

TELPONS MID EXPLOSIVED.

R.a.

13. Breaching Concrete dalls by Gunfire.

(Trials)

(M.1.. No. 9 II. parcs 16 a 17.)

(a) Ob oct:

A series of trials has been carried but to leteraine the number of reads required from various types of sums to effect a tenk breach in a concrete wall.

(b) Stat .cnt:

- (i) The walls att one, in these triels were 10 ft aigh to the try of the plane free in front and 11 ft 6 is to the top of the curved or who. In rear there was a ft 6 is wide fire stepht ft the who curved top. The thickness of the wells was 9 ft above the fire only. 10 ft 6 ind inclinately tell when 11 ft 6 industrial tries in a classification of rward at it at 10 legroup to the vertical.
- (ii) It and discovered that her explains walls are insiderably easi r to track up that, a semale of small appropriate forth less that here required twing to the today of the lessent 'plus' to rell two clear of the walls.

(c) Assert this

(i) In three class, the number of runds decide conserve to characteristic decides the assertation of straight and interest and fit istendard breach is in fit wide, I fit high in front and I for any high in recrubing these class, allow not his been made for 50% additional runds for the rund placin of runds in an operational attack, and allowance has also been made for errors of twice the 50% zero of the junctions. Assessments are as

 Range.
 500 yds
 1000 yds
 2000 yds

 Combination of 17 pr aP shot
 200 rds.
 250 rds.
 450 rds.

150 mis. 75 rds. and 5.5 in HE shell 75 rds. 130 rds. 70 rús. 60 rds. 6 inch Mk. XIX C.F.P.C. 300 rds. 600 rds. Combination of 6 pr. Alt shot 220 rás. 230 rds. 100 rds. llords. and 95 mm HE sholl

(ii) In two other cases this assessment was not made, but the following tentative conclusions were drawn from the trials:

The 155 mm cun with its AFBC M.112 B.1 shell is effective against concrete walls, but requires the addition of a proportion of HE shell. This was not found necessary in the case of the 6 inch CFBC shell, which has a capacity of 32 per cent against the 12 per cent of the american shell. About one HE shell to four AFBC shell appears to be sufficient. Insufficient bellistic data are available to say how much firing would be necessary at various ranges to got enough him to make a breach. On the enclosy of the 6 inch Mark XIX results it appears that at short ranges, 1000 yards and under, from 30 to 10 AFBC shell and 8 to

C.O.H.Q. MIS No. 13 - 3 -

TOP JECTO

Section D (continued)

Breaching Concrete wills by saffr (cathand)

- (iii) Continution of 17 or Amount on, 95 am All shell.
 - 1) Approximately the non-neutral AF shot so in M
 - 2) Approxi thy the community of 95 mm 6基 on all coin xx

It. Firing of 17 , r MTR Bure i littly often de westin from Londing Craft.

(MIS 1...), II. r. 11.)

1. Object:

A tril and it is best mine another to define confirmation of the unit is nevertable effectively their mine to be the literature after with mine and countries, eath, eath, is a countries too falls. I ok!, eather.

2. <u>stat ...t</u>:

The fields were secured in the full of tak' within, not the uns were water; refed in mee rince with in tractions from Me. 13. Guns were towed by Gun Triet in the an 2' to 3' if water with it waves for approximately 6 inut of Guns were then be attributed 8 r.p. were fired. Guns Nore 1 a 2 fired normally except for a slight clussishess in run-cut. No. 3 gun elevating gene was stiff because of sand in the arc and pintin. This was cured by elevating and depressing the un. The mentally. No. 4 gun fired normally.

3. Cnclusions.

The firing performance of the 17 per M/Tk gun is not adversely affected by towing through salt water with a high sand content, with the piece in a pulled-back position, and the un waterproofed in accordance with the method laid nown.

4. Notes.

- (a) It was considered that the method of waterproofing the guns was needlessly elaborate, and too much time was taken to remove waterproofing me erial on coming into action. War effice (M.E.13) therefore has undertaken to provide simplified waterproofing instructions for the bulk of artillery equipments. Further waterproofing and firing trials will be carried out.
- (b) Alternative methods of disembarking the 17 per are being tried.

 The object of these methods is to eliminate, if possible, the pulling back of the piece and the raising of the shield.

C.O.H.Q.

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TOP SPECTOR

Section D (centinued)

14. Aurican 4.5" Ruchet launchers.

(lulletin X/16)

.ulletin h/16, which consists of the tost of this equipment has a whole published. The transport of brunchers, Type 6 and Type 8, we because in a control of the friends of the frequency testion of the frequency testion of the frequency of the first of

R.D.

16. Lasange of Underwater Chat clea.

(1.1.3. N., 9. II pare to all the k/21).

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complete in the list florid, covering is the covering of a told the covering the covering of the covering

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17. 12. II hours ...

Right trill with like II is door we give a pattern of a till industry of year to be with a fill yet at a recording to the fill yet at a recording to the solution of the fill record their interpretation that the installation of the fill related 35 and 42 and also some Mk. I discuss with a toronomic form of the Mk. II the spread connect to resucceed, it appears to the property of the Mk. II Hedger a against Tell relies of the Mk. II Hedger a against Tell relies of the Mk. II hedger a against Tell relies of the Mk. II hedger a against Tell relies of the Mk. II hedger a against Tell relies of the Mk. II hedger a against Tell relies of the Mk. II hedger a against Tell relies of the Mk.

Till r ine 35 - 90% clear act for lane 24-ft wide. Tell raine 42 - 45% clear accomfor lane 20-ft wide.

A considerable high valuet in the clearance against Fallermines 12 might to achieved if a second L.C.A. Holgaruw followed the first and fired to superimpose its pattern on that of the first Hodgaruw. Trials are being carried out to ascertain whether this is feasible.

18. "CONGER".

(M.I.S. No. 8, II Ar. 16.)

Tricls continue with the development of this weapon, designed primarily for breaching with Minefields.

The weapon consists of a 2" canvas hose projected empty for a distance of 300 yds by means of a rocket. The hose is then filled with liquid explosive by means of compressed air. When full, the after and is east off from the explosive container and a delay ignifer is used to fire the suse.

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TOP STORET

Section D (continued)

"Conger" (continuod)

(a) Performance

- (i) Under the worst conditions on land the Conger is expected to give an 18' wide lane through Tellermines 42.
- (ii) On beaches and in large sand, this lane may be expected to increase in with to 30 or 40 ft.

(b) Time for operation.

During a recent trial, the time from the projection of the rocket to the firing of the hose was seven minutes. It is considered that with practice the time should not exceed five minutes.

(c) For Land use.

For use on land it has been lecited to carry it in a towed carrier.

_j. "Bookrest".

The term BOOKREST refers to the Conger mounted in a craft for use from the water. It is possible to mount the whole apparatus in an FOA Hedgerow in addition to the Hedgerow installation.

- 2. A recent trial showed a timing of $7\frac{1}{2}$ minutes from the time of firing the maket to time of letonation of the hose. This timing should be capable of being reduced with practice. The projection and the firing of the hose were successful, but the charge failed to actorate owing to shall air lock at the detonator end, caused, it is thought, by the fact that there was just insufficient explosive to fill the hose.
- 3. The operation of firing Bookrest appears feasible and the technical difficulties should be capable of solution without difficulty.

20. Ploughing in Sand and Underwater. (MIS No. 9, II, para 19 Bulletin X/12)

A recent trial was earried out with the FARMER DECK using the Mk. III Sherman model both dry-shod on sandy beach and in varying depths of water.

Conclusions.

Conclusions reached were :

- (a) Ploughs are able to operate successfully underwater against mines.

 Trials were actually carried out in depths of water up to 18".
- (b) The speed of ploughing in sand is about 3 m.p.h.
- (c) If mines are picketted there is a risk of the picket bringing the ploughs out of work due to the ploughshare pushing the picket over and then riding up the inclined plane so formed.
- (d) The Sherman Chevron steel type track and engine are not powerful enough to operate ploughs under all conditions which may be encountered, owing to the smoothness of the Sherman track.

 (The FARMER) DECK stalled when during one test, the

C.O.H.Q. MIS No. 1C.

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Section D (centinued)

il u him, in Send and Underwater (continued)

r. r side plant engrees blue list clay sterop on the brack. The total dugits of in the sout under its same power.)

(e) In order, eject. The do not the to drift but rather second to be sucked I whilly the same. In strong undertow, newever, might be donerous in shifting excavated mines.

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TOP STORES

MICTION E

Buckle and Cancer OF

t. II.

eillinii F

THAT IS ORTATION AND LANDERS AND SOME FOUR MOTOR

1. Acrial Gr vity Repowy.

(11.1.3. 1. . 9, 11, gar (4.)

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It is get if the coupling the form of the total total be lefted by the pricks and all policy to the mills of the by the souf a special clip which will operate by a pocal reprint heave. The range of a volume of the repowry is total lambial, a court is not essential, a adequately it can work work one is a thy larger spens than the merial or vity Relawly. Similarly, by virtue of the fact that the clips can be at over character, intoficiate haster by the inserted, and the reprint extended at the same and to my distinct required.

Sketches will appear in next issue.

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to state

Section F (continued)

23. M.L. Pont in Equipment.

(1.1.5. No. 0. II, para 1).)

Hallors of Bulletin X/15 on this cut pret or a question to got that in addition to the on to direct a parameter in a question to the on to direct a parameter in the first arms available. They are decision for a structional regressional instance and as meanfs, in trick-wall style. Then is a lift to the size that was a constructed in this way.

Ac an example, a 7 x 60 aperf (5 -ft wide . 1 350-ft .ong) can be so up if alternate trials of the 1 x 6 units, and him 1 x 6 units with a 1 x 3 unit at electric. The units requires the obtains are a to coupled one to only turn of 1 in a constant of the 1 in the units of by ide at tipe of 1 and the trial transfer the coupled to 1 of respect to 1 and 1 and 1 and 1 and 1 and 1 and 2 and 3 and 3

This type for struction you are in mattered mater.

24. Bungan H.L. Cauchay.

(.I.) D., 9, II, was IV - J - w...)

and in softer for the left of the July which is and on shopen on bot wit, a river limited for lating but rest in amount of country at the sole. In latter the relation of very country with the sole of the grant of the sole of the sole

25. Rill Ferry.

(II.I.3. No. 5. IV, para 19.)

Trials have shown that the L x 7 N.L. Tugs cannot be controlled another breakers. A new arraige of the therefore been adopted in which 2 Chrysler Sea Tracture are mounted on a 3 x 7 N.L. Tugs which will remain to seeward of breakers and tow the Rhino off the beach by a long tow repair to control the Rhine bargs itself shillst beaching, the two Murray & Tregurtha buth and angines will be mounted on the quarters of the Rhine.

It has been found that the 60-ten ramp supplied cannot be handled in the event of a breakdown of the winches, and Rhinos will therefore to fitted with twin Olden ramps constructed of timber, which have identical characteristics as regards long and low vehicles but can be manhandled in in emergency.

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TO SECRET

Section F (continued)

26. <u>i.C. i.nt n.</u>

The design of the L.C. into a equipment in the form it is to Tank plates corner precises. The code units or tenks 13'6" x 5'6" x 5'6" consisting fight of the local research to bolted together. These units weigh 2½-the color take 100 on a sure to

Fint in barges, where, Dry locks, etc., my ize or happ, can't rapidly constructed by the lamburity that, r, affect. The lambur size size for towing at our 10, however, 100 fer x 30 fer. The list brucht for these contact in 1 7 more activities, rts 2-tons for each adultion of it is contact. Full details will be indeed as a builting.

77. Matily rior.

writer constructed of r.C. First in equipment partially suggest 1 by scall tricked units, is under consideration for use in sature with lorse till room.

It is not also that the pier council to publish did not to tellow to till, by that re, in order to lime venicles from Level re Ruine Forry dry and

28. Tilly Local Britis.

(M.I.s. No. 9, II, par 20.)

In M.I.S. No. 9 this was broke only referred to as 'Mubil's heily fridge', which is not then R.E. Store.

Durin further trials of the half letter Tridge, difficulties were one untered in transferring vaniels from these all L.C.T. to the bridge on account of the volunt of the L.C.T. (Trials are now in progress with a 30% like platform, in the ind of the tridge from which a ramp can be 1 wered to the trink lock of the L.C.T. The rimp is provided to allow for a varient of the L.C.T.)

29. Tutular Scoff Ling Fior for Regid Kreetich in Shallow Water.

(M.I.S. N . 3, IV, part 16.)

A Turular Scaffolding Fier was been evolved, which can be launched from L.C.T., floated into the exact position required and then secured. Up to 300-ft can be stowed in L.C.T.(3) and the jetty is suitable for use in u, to 10-ft of water for personnel only.

It would appear that this jetty may be of considerable value in lending perconnel from L.C.I. in the fillow up stages of operations in waters with small tidal range. Full details are being issued as a Bulletin.

0.0.4.3. MIS No. 10.

Section F (continued)

'Holter Skelter'. 30.

This consists of a cray a chate (such as is used for fire escripes) to enable fully equipped true to transfer from the decks of L. .I. int. landin, craft. It has proved an extra ely rapid and effective come for this purpose and a large number or thin produced. The enute of also re usel for stores.

D.8 Roc.v.ry Tract.r - ar ur .. 31.

(Trials)

(...I. . N . 3, III, per . 0.)

A strikeri D.8 m c v ry tr eter fitted with a myster D.S. N everwound teming which y experi satally ermound, has been tosted for welling an experi containity.

Robults of trials triefly er. to full usi-

- While . Tri is lefts up to felt forlm wreer wars the abl I sugge oful, but is left to ter lits 2 t. 3-ft warm it was the nucle of course to the court of the party of the party of the course of the course
- Distriction. With or ft or at the vehicle was the disconnected from the test of the respect to the water case up to within a fit to the water case up to within a fit to the transition. It was a second that the fit is a second up to the fit of the fit is a second up to the fit of the fit is a second up to the fit of water case up to wave the fit of the fit is a second up to the fit of water that is accordant to the fit of the fit of the fit is accordant. (;)
- Drawing rolling rolling roll: Dynamon, ter tests were rail in the following rolling rolling (ē)

 - (i) Drawler pull, fir not said 16 tons.
 (ii) Winch line ull, fire of and 19 tons.
 (iii) Drawler pull 7-ft of actor, fire and 17 tons.
 - (iv) Winer line ull 3-ft of water fir . sand 12 tons.

 - (v) Drawbar pull 5-ft f leter firm send 12 tons.
 (vi) Willer line pull 5-ft of water firm sand 22 tons. **
- * Note. It is understood that this apparently high figure is achieved by carrying out towing before winching. In depths of 5-ft the former causes track spin which in turn permits the vehicle to 'dig in', thus enabling it to get a better grip for winching.
 - Rofloating of Minor Landing Craft. An L.C.A. was successfully towed across a beach with the aid of the winch rope attached to the skeg hook of the craft. An L.C.V.P. was also successfully towed, but (d) having no skeg hook, a double tow rope was attached to the towing eyes on the tows of the craft,
 - () (e) Vehicle Recovery. Numerous vehicles including A.E.C. Metador 4 x 4 tractor towing 3.9 Heavy A/A gun were successfully recovered across a soft sandy beach with direct pull.

is a result of this trial, several modifications have been recommended, which if incriporated abould improve weding performance tions. C.O.H.Q. MIS No. 10. * 1/ *

TOY JELTIT

Section F (continued)

52. rule tic Tyred Fork Trucks.

(Wille appropriate W)

A Firk Truck with in all the tyres for use of right and row then in aucol. The Blink Firk Truck (e.g., 'Trinsport') uses strong any 6.50-16 tyres of a lift 1.500-16 to 25% from finger against by aline to unterstint to the rise, 5.000-16 to a to lift a. The examinant healt of lift is 12-ft. The eximum healt of lift is 12-ft. The eximum healt of lift is 22-ft. The eximum healt of the truck of turn is 11, ft at the ridius. It is of equipment is approximately 6.50-16.

13 Messim dir Met.

(fulletin X/2) in ,r (ar to a.)

The equipment of the following the following wine extinctions, it is not to the following of 11 Trees with it to the december of the literature of the following the following the following of the following following the following foll

Full lot ill incluie in include the total Alake a iven in the Tueletine

34. y torgraf Cuits.

(Vil- Appendix C. ...)

Froli in my trade with a probabilist of various types of waterproof suitable and with a half basis to a major the water op to two or decoded L.J.I.(L) or L.M.I.(S) and the language in a large condition.

The suit which proved a state of the ry late, the trials is and, from he texture Indiana, in fid it, synthetic rules. It is in the piece, and hold in position by types at the ankle, of if, and a draw string at the neck. In addition there is a belt, just below which an either side there are special rip tabs. For the for use with this suit consists of shoes with rope soles embedded to equipment.

Large scale user trials are lesirable to assess the true merits of the equipment, but in the meantire a Eulletin is in preparation detailing the trials already carried out and describing the various types of saits so far tested.

C.O.E.Q. MIS No. 10.

- 17 -

The average

SECTION O

EQUIEMENT FOR SERVINE COFRICTIONS

NIL

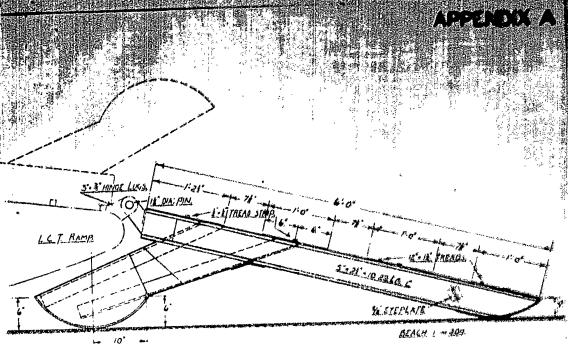
SECTION H

MISCELL MEGUS

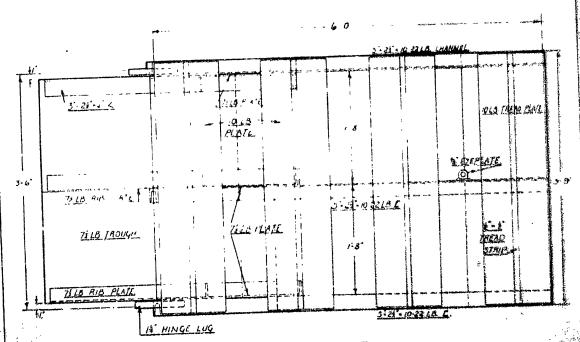
36. One Man Strutch r Trolly.

(M.I.S. N., 4, IV, part 20.)

an under carries with two beitfire toil wheels, which can clisted to a stretch r, as been tried. It proved to be the last device yet discovered to enable and an to handle a stretcher itemporated in Turletin X/22 'L.S.T.(2) Respit 1 Trials' which is now in Imparet n.



ELEVATION

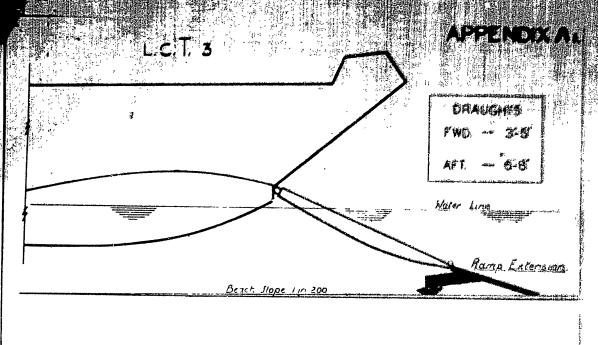


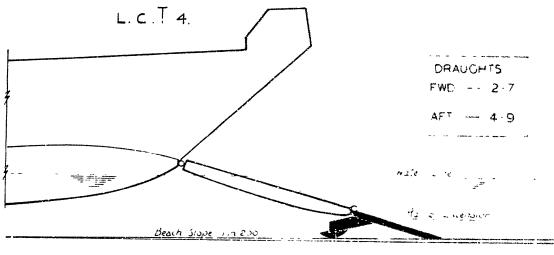
PLAN OF ONE UNIT.

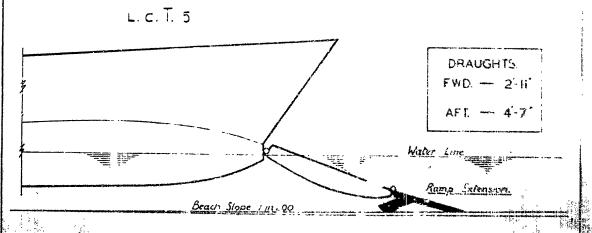
NOTE:THE COMPLETE RAMP EXTENSION
CONSISTS OF 3 OF THE MEDIE UNITS.

DETAIL OF MULOCK RAMP EXTENSION

L.C.T.S.







Scale dilusion for

MULOCK RAMP EXTENSIONS AS FITTED TO

0.0.H.Q. MIS No. 1¶?

Tor STCAM

WI MIOIN 'D'

COUNTION TO DATE RECALDING 'A' VISIOLE HADING

a. Schemes cleared. Waterproffing canuals and wading kits evaluable or in projection.

CAUTTEDIA >	r in practina		
Sorial No.	Type f Vohicle.	Mading Doubh	Goracka.
1. ,	Churchill I, II, III, &	IV 61	
2.	Churchill 3" 20-cwt.	21	
3.	Sh r an V	6,	
	Shemau III	\$;	
4. 5.	Grouwell/Gent ur	5!	
6.	otuert M.3 m.11	61	
7.	Stuart M. J. A. 3.	ان	and the second s
8.	Sh ran II	41	J.J. Arthy selects noon, tork
9•	Churchill VII	51	
10	Shortan V(C)	f3 t	
11	Sherman O.1.	61	
12	105	61	
13	3", 14.10	61	
14	25 par . 18 s.	ပ [‡]	
15	Orus for Just Two	41	Most puroible.
16	Valentia se rpi n	٦1	tt d
17	Shirt in Crat	ان ا	
79 71	Valentin, f.i olygon	21	,н
19	A.V.R.J. with S.I.G.	<i>Ĺ</i> 1	
20	A.V.R.E th i.ou h	61	
20 21	Churchill A.R.V.	٥٠	
22	Sherman III i	6º long	
22	Justical III I III	ir.ersion	
27	Carriers Universal 3" L		•
23	& A.O.T.	L!	
24	Carrier T.16	61	
	Carrier Lloyd	4'	Large scale tricls
25	Carrie: Eroja	4	indicate that certain
			modifications will have
			to be made to existing
			instructions, in order
			to make spheme success-
			ful.
26	Humber Armoured Car	41	
27	Daimler Armoured Car	41	
28	Staghound Armoured Car	41	
39 20	Humber Armoured Car A/A		
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30	Damiler Scout our	· · · · · · · · · · · · · · · · · · ·	cate that certain modi-
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			be made to existing
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ARTER CO	· ·	v	successful.
31:	Humber Scout Car	41	
31. 3	Lynx Scout Car	3'	This is the carine
阿里斯斯斯			denth postble

0.0.H.R. MIS No. 10.

TO STURE

ALTENDIX B (continued)

D. Schwids not yet clear.

33 34 35 36 37	Sherian V.m.R.V. Sher in III m.M.V. Valentine Grant/Leo Centiur IV	6: brosening priority. 6: crosening priority. 6: ditto. 6: Requirement wing off an oraft.	
38 39 40 41	Challenger Churchill A.V.R.E. Cramell/Contour A Contour A.A. Crustder A.A. Mk. III Nex.	6' 6' 6' 4'6" Max	

C. scheles concellet.

43 44 45 46	M Churchill I, II, III & IV And to M Shorin V Aitt	31 61 #3# 31 61 #3#
110	Sa ran III	51 #3#
47		3'
46	m Metila	71
49	m Cruscaer	7 i
50	M V_lentine) 71
50 51	* 25-jdr Volutino Sa.	7 1
52	n Rus II	5°
	Cr.:well/Cett ur	2,
4 7,	Crviliur	3 & 6'
53 54 55 56 57	metilde barun	7.60
رر	Crus ier *.a. lik. I	0,
50	www.maret.Cor	41 Int Whatela.
51	Butter Li ht R connaissance (car h! Graded as '3' Vocicie.
59	in her li ht a commission	V

N to.

- (a) '3' full wing weding digth donates long immersion.
- (b) multhough there is no require ent for these shames waterproofing instructions have in most cases been printed and there are a limited number of kits available.

C.O.H.Q.

707 33700

ATMOIX B.2.

B VEHICLES HICK HAVE DESK TEFFED AND FOUND SATISFACTORY FOR 4 FT. WADING FOR 5 MINUTES

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A.E.C.
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altion
                                    3-t a 4 x 4 FT 11
                                    3-t m 6 x 4 EY385
                                    10- m/6 x,4 CX(N
                                    20-t'm 6x44 - 4 CK.245
aus tin
                                    3-tin 4 x 2
                                    2-ton 4 x 2 (mabulance)
                                    7- - 4 x 4
                                    3-* n 6 x 4
Lodford
                                    15-cat 4 x 4 Mi
                                    30-cwt 4 x 2 CX (Slive Battery)
                                    3-t r. 4 x 2 0Y
                                    z-t.n L x 4 QL
                                     -t 1. 4 x 4 - 2 QLC 30 .1-Tr-11or
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                                    15-cut 1 x 4 artulance (2 stretener)
                                    C r
Dar is
                                    6-1 1. 4 x 2
Dig nd T
                                    L-t n x 6
40-1. 6 x 4 Tank Tr nsporter
Da c
                                   li-cut 4 x 4 incles Vin
                                    3-t n 4 x 2
3-t n x 4 : reak ...wn
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                                    10-t . x 4
Folor 1
F rl (Canadian)
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                                   36 -c. t 4 x 4
                                    z-t n l, x 4
                                    3-t n 4 x 4 Tr ct.r Lt. 4.4.
                                   7-t.n 4 x 2 Tip or
3C-c t 4 x 4 Ambulance (4 stretcher)
F rd (U.H.)
                                   15-c% 4 x 2 .0T2
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N F.D
                                   4 x 4 M.A. Tr ctor
1.2.0.
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                                    3-t.n 4 x 2
                                    3-ton 4 x 4
                                    3-ton 6 x 6
                                   15-cwt 4 x 2
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                                   4 x 4 Quad
                                   15-owt 4 x 2 Wireless
Hu her
                                   8-cwt 4 x 4 F.U. Wireless
                                   8-owt 4 x 4 Ambulance
                                   8-ewt 4 x h Car Utility 4 x 4 Mk. III Lt. Recce
Karrier
Leyland
                                   3-ton h x h K6
3-ton 6 x 4
Heck
                                   6 x 4 IMDW Heavy Breakdown
                                   18-ton 6 x 4 FXEX Tenk Transporter
6-ton 6 x 6 Wrocker
                                   Brewt 4 x 4 - 18 19 19
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C.O.H.Q.

TOE STREET

ALL ENDIX E2(continued)

Morris

"
"
Scannell
"
fhornyerft
White
"
"
(Rustall)
"ard-La-France
"illys and Ford

15-cwt 4 x 2

4 x 4 Bofors

30-cwt 5 x 4

4 x 4 bk. II Lt. Reccs

20-ton 6 x 4 Drackd wn

20-ton 6 x 4 - 8 Tank Trusp rtors

30-ton 6 x 4 - 8 "

3-ton 6 x 4

15-cwt 4 x 4 Scout M3ml

Helf-track M.14

16-ton 6 x 4 Model 920 Tank Trusporter

4-ton 6 x 6 Wrecker

5-cwt 4 x h

TR..ILE'S

Gos. Well Fire Pump
Donnis Fire Rump
R. M.E. Servicing Trailer Mr. VII
10-ent G.S. 2 Wheeled
15-ent Water 2 Wheeled
1-t n No. 1 G.S. 2 Wheeled
E. 4 whoeled
E. 4 whoeled
E-cont Tale Carrier Mr. II 20 wheeled
5-ton 4 wheeled type MD
O wheeled type 19 RE Ruston Ducyrus
20-ton 8 wheeled type RP "
20-ton low locking multi whoeled type Mr.
40-ton madel D/L5 Rogers
40-ton Crane transporter No. 1 Mr. II
20-ton low locking multi whoeler SET

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C.O.X.E.
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A PMDIX D. Z.

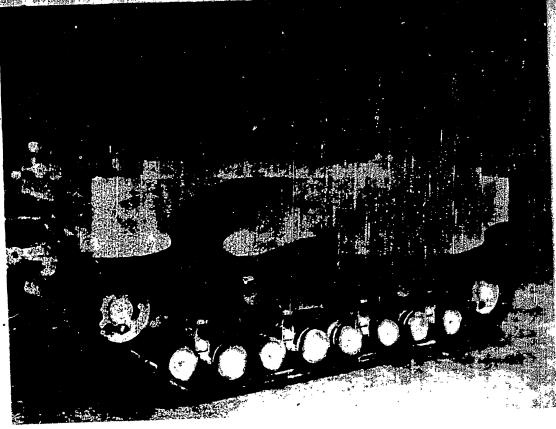
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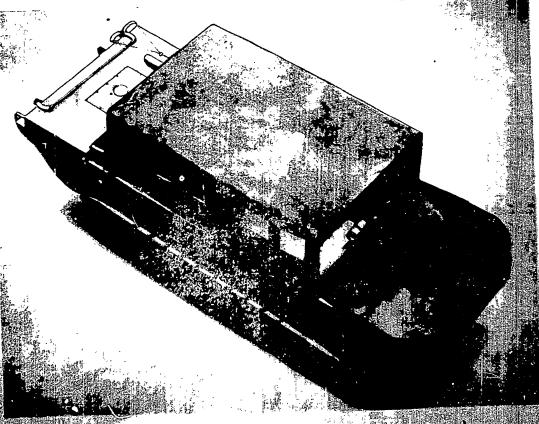
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Rader ... N . 1 Mk . II
   " da.da. N.. 3 " II
H A.A. N.. 4 " 1II
of mals Equipment, wire loss Sots atc., all types
 Liroloss Sots in 4.F.Vs.
Det et ra Mine : lish He. 3
wind St ro Tylus S and Y
a torar fine Vehicle L e s, including use of Crepassisal Shoots
Gu a and the unities one fam. Cont in sec fall types.
 frier Lorry.
. calary Larry type K.L.
     # # H I.30
15 K.V.n. C meret r - Tr iler (Reder)
and att . 1. t Reder A.A. h . 4, M rk III
ir gettir 90 e. .
10 K.V.A. Getteret real achie. I to or.
A.A. Muchaite i Equipment - Tret ra D.L. 6, 7 and 5
                                    T.D. 9. 14 and 16
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                            Luralli 2 c.yd. Durger.
in to Year nie 1 Larry )
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Chart Larry
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R. Tr A.A. H. 3, TR. III
h.m. O. it. (it. ... F. 1 y = 11.3)
10 F. J. a. Get. art t r n a. E. C. Met 1 r (G. T. V. 6 pdr. a. A. Twi)
Truck 15-cwt Conliner, m.h.
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Declassified and Approved For Release 2013/09/16 : CIA-RDP13X00001R000100220001-9 Oyoyant Handcart - Waterproof Seit

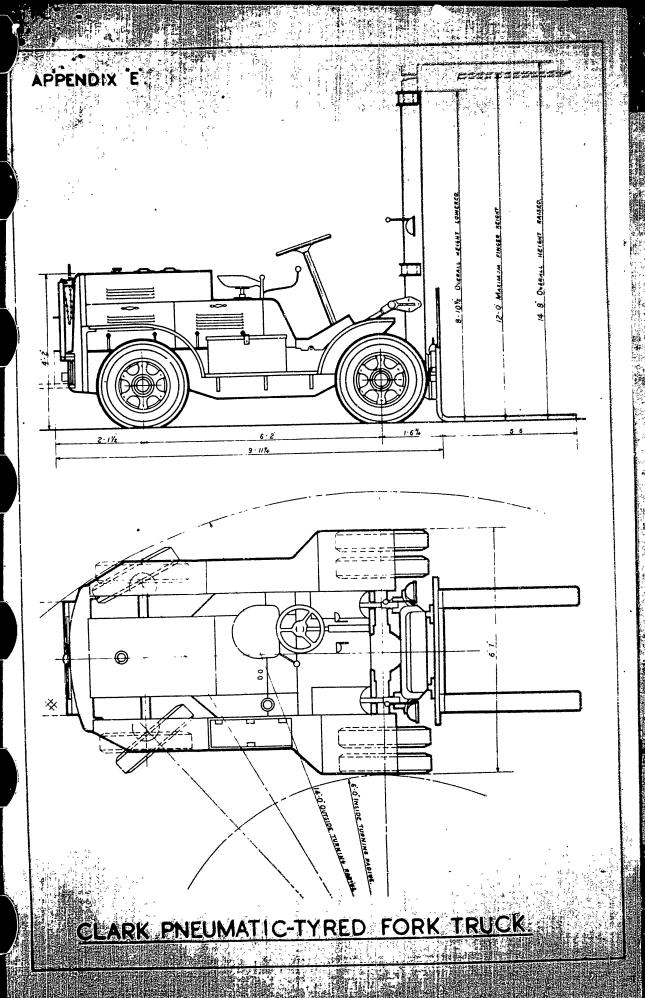
APPENDIX CZ



- M.29 Light Cargo Carrier. -



M29 Light Cargo Carrier (Amphibias Virgon)



Declassified and Approved For Release 2013/09/16: CIA-RDP13X00001R000100220001-9

TOP SECRET

ROUTING SHEET

INFORMATION

Subject Bulletin 1/23

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TOP SECRET

DERECTOR'S OFFICE

WAR DEPARTMENT
MILITARY INTELLIGENCE SERVICE
WASHINGTON

MID 311.19

12 April 1944

MUBJECT: Documents from the British Joint Staff Mission.

TO: Director, Office of Strategic Services - TERCUGE Liaison Officer with C.S.S., Capt. Madeira.

l. Enclosed her with are the following documents which have been received from Captain H.D. Tollemache. Offices of Combined Chiefs of Staff, for transmittal to you:

C.O.H.Q. Bulletin Y/23 M.I.S. No. 10

2. It is requested that the enclosed receipt from Captain Tollemache be acknowledged and returned to him direct at the address indicated.

For the A. C. of 5., G-2:

FRANK B. VOYSET, 1st Lt., Inf.,

Commonwealth Section, Foreign Limison Branch,

Encls: 2 documents
Rec.for ret.to Capt.Tollemache



TOP SECTO

Dritish Joint Staff Mission Offices of the Combined Chiefs of Staff Washington

3rd April, 1944.

Commanding General, Office of Strategic Bervices, Washington, D.C.

With the compliments

of Captain H.D.Tollemache, R.N.

Chief of Combined Operations Representative.

Section No. 292

COHO BULLETIN NO. Y/23

\$50#6 Buil

EXTRACTS FROM PEPCATS ON SALERNO LANDINGS

Distribution

(See back of this Sheet)

Issued from:-				
Combined Operations Headquarters, 1A Richmond Terrace, Whitehall, London, S.W.1.	March 1944.			
Ref: CT. 217/44, CT.1355/43, CR. 2	03/44。			
Received Copy No of				
CONS Bulletin No. Y/23.	CGR Bulletin No. Y/23.			
	Signed			
	Rank			
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Despatch Department, Combined Operations Rea LA Richmond Terrace Whitehall, Lond	•			

Declassified and Approved For Release 2013/09/16: CIA-RDP13X00001R000100220001-9

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SECTION A - RELEME OF COMMODERE FORCE 11. r.1r : Intulligerou to the of Charte and Pavisational Publications . rtlata · c. Il cress ter ice n jr tecti i ot Div. Accoult a PAGT on i SUGAR Beaches Air Defeace ir 3.1 5/1713 . The ir i rise 3 r it 3 tc. t 3 tort to i. Lorri 7.1 1 a rlat To ording it to CESTION D - From Copert by Cartain, LET, 'eliterranen. willing from the reaction he by Assault Force..... Shelling it ones. Chaps St. d. Chary Teach Matting..... Tou of glacomy Ireft of Speed for Deaching Analysis of Unlording Tires CECTION C - MINESWEETING Difficulties of Reachfinding The Sweeping of an Assault Beach after the First Assault Stage Dan Bucy Work SECTION D - COMMUNICATIONS Organisation Seaborne GCI

(11)

SECTION D - (Centimed)

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Liaison	ń
SECTION E - NAVAL DEMONSTRATED IN SUITORT OF 10 CORTS.	
Over 300 Targets LCC LCT(R) Reference Positions and Call Signa Use of Artillery CP ELOs and FCBs and Tarties Effects of Naval Cunfire Lessons Learned	9 10 10 10 10 10
The Flan The Landing Method of Charatina Screen Decay Screen Use of Mobile Screen Effective Screens	12 12 13 13 13
Freventing Leach Clarrytich by Erecy Limitations of LUNG. Annunition in the Asseult Control of De-water; r ofing Areas No Durks in Stubble Navel Briefing of Vital Importance Good Ferry Service Comperison of Flanning Figures with Results. Reports by FMLC and MLCs	14- 14- 14- 14- 14- 15- 15- 17-

CORD BULLETTH NO. Y/23

EXTRACTS FROM SALERNO OPERATIONS REPORTS

SECTION A

(Report of Commodore Force N)

Planning

By superhusen efforts on the part of all concerned, and under conditions in which I hope a combined operation will never again have to be concerted, Force (E) and SHOL (Q)'s orders were ready for issue by D minus 11.

- 2. Intelligence. Vertical and oblique air photographs, as usual, proved indispensable, and a large circulation to leaders of assault flights and bembarding this and melcome.
- 3. Supply of Charts and lavigational Fublications. To vorceome the difficulty of ships joining the operation subsequently not having the necessary charts, a plentiful supply of folios covering the area was carried in the de difference Ship. Up to D plus 21, 58 copies of Folio 355 had been as distributed.
- the <u>thertlet</u>. Perflets were involumble, but the initial number ordered was inade u to. It is recummended that the supply of shortlets should be on a basis of two to a chaship and craft taking part. An over-print to include :-
 - (a) Leworite Resiti to
 - (b) The approach course
 - (c) Any special Navigati n 1 Ails
 - (d) The designation if the torches, and
 - (a) The anchorage area.
- 5. If it is possible to obtain eitheuettes of the constline, those should be included in the chartlet.
- 6. Beach diagrams. These were f e naiderable value, but it was not found necessary to issue them below the level of the Deputy Local Naval Commanders.
- 7. <u>Issue of Orders</u>. It would be convenient, in combined United States and British operations of this nature, for the issue and distribution of orders to be according to some agreed system.
- 8. The United States system of issue, Annex by Annex, cells for more staff in British Headquarters Ships for listribution than is at present provided.
- 9. Briefing and Babarkation. Orders were volunious, coming from three authorities (Commander in-Chief, Mediterranean, Naval Commander, Western Task Force, and Commodore, Force N,) and, due to hurried and simultaneous production, amendments and addenda kept pouring in up to the moment of sailing. Great reliance was therefore placed on personal briefing so far as Commanding Officers of ships and craft sailing from Tripoli were concorned. This reliance was not misplaced, and, in my opinion, contributed principally to the welcome absence of mistakes or mistaken intentions "on the day".

List spance and Protection

- Alo. 56th Div. Assault on Rogor one Sugar Beaches. There was approach and subsequently, but this was never accurate enough to be really dengerous to landing craft, and only one LOI and two LOT ware hit. This spasmodic fire, however, had the salutary affect of causing the craft to unload and clear the beaches in record time. Snoke was not used in the initial stages of the assault.
- 11. Air Defence. At night, following HUSKY experience, reliance was placed on keeping ships in a tight cluster, and on screening the anchorage with smoke.
- 12. All fire from close-range tracor-firing weapons was forbidden, except at visible targets. Full liberty was given to heavy AA, with Radar control, within the Inner Artillery Zone (IAZ).
- 13. This worked well in spite of a moon and, often, many clusters of flares, and such bombs as were dropped in the anchorage appear to have been only browning shots!
- 14. On more than one occasion "Y" intercepts reported leaders of German formations instructing their units to bomb the ships making most flak.
- 15. The IAZ at night was reduced to 7,000 feet in height as soon as locally-based night fighters began to operate. This was justified by results.
- 16. The use of seaborne GCI sets in IST was invaluable. At night, they were stationed well to seaward in positions where, as result of experience, they had least interference from land echoes.
- 17. Hospital Ship should arrive as early as possible on D day. The evacuation of casualties satisfactorily without one is most difficult.
- 18. <u>Provisions</u>. Some arrangement is essential in any but the shortest operation of this kind for the timely and regular supply of provisions for the smaller ships and craft that may have to remain for a considerable time in the assault area.

Repair and Salvage

- 19. The provision of ample shallow-water diving equipment to clear propellers and rudders is a necessity. Wires can nearly always be cleared from shafts if the tail coupling is broken and the shaft slid back a few inches, but even then underwater cutting goar is nearly always required.
- 20. Beach Repair Parties. While SNOL controls more than one beach, he requires an Engineering Officer on his staff to co-ordinate the work of the Repair Parties. The Staff Engineer Officer in the Headquarters ship has not the staff, nor is he in close enough touch with the beaches to be able to undertake this.
- The loading of the Beach Repair Parties in two specially allotted Tresulted in their arriving complete. This was a great improvement over MSAC, where the beach repair equipment was dispossed over many over their traced after its arrival at the beaches.



-3-

- /22. Le Tournoau oranes once again were invaluable and provod much more suitable on rough ground than had been antidipated.
- 23. Spare parts and stores for landing craft were in constant demand, which could rarely be not save by cannibalising. The anchors lost and hawsers parted in the gale on D plus 18 coult not have been replaced locally, had it not been for the capture of the small but well-stocked shippard at Salerno.
- 24. Salvage of stranded landing craft was very successfully accomplished by securing on LCI (L) alongside at an angle of 45° on the seaward side. By going ahead on her engines, the LCI scoured cut the send from beneath the craft at the same time as the craft was being pumped out and the sand recover.

Ships and Craft

- 25. Ships and craft allotted to Force N were adequate for the operation, prolonged as it was, subject to the following remarks
 - (a) Inevitably, the requirements of the Military situation led to supplementary domands being made in LCT for extra lifts from one beach to another, in suggest of unforescen troop movements. These were net, but only at the expense of lischarge of shipping. It is recommended, for a large operation of this sort, that the allotment of LCT shoul be definitely generous. Had it not been for prolongel fine weather and a temporary windfall of 13 LCT from Sicily, which had later to be returned, a critical situation would have arisen.
 - (b) Despatch toats proved essential, 3 for the Headquarters ship (in addition to her on boots) and 4 for SNOL were the requirements. A proportion of fast are house would save much time.
 - (c) 19k. I IST were 'r ubleseme to bened in jontons word olweys necessar: f r them.
 - (d) Wk. II IST were remarked on in lethil in Coptain IST's report (see pages 5 and 6). These craft had been running centinuously for portion HUSKY and had little or no opportunity for maintenance or wearhould. Their fine performance, whether british or American, was one of the most outstanding features of the operation.
 - 26. Waterboate It was found that one 2,000 ten water tenker only one 350 ten carrier were inadequate. The small tankers should be previded so as to allow of one being used entirely to ferry between the assault area and the base, while a second small one is used in the assault area for filling up ships and shore establishments, and also for drawing water from M/T ships to top up the big tanker.

Lessons Learned

(Extracts from Commodore, Fores N's'Conclusions and Lessons Learned'. He points out that what follows is not necessarily new, but rather comments on points of interest).

27. Navel Bomberdment. There was not enough space to bring into action all the artillery landed. Navel grafte filled the gap, and

/undoubtedly

/undoubtedly saved much time and many desunities in the course of breaking down the enemy's defences and pushing through to the plain of Naples.

- 28. The situation on Uncle Green boden on D day, due to a pocket of enemy resistance in very close country, illustrated the difficulty of supporting our own troops with ships guisling, without observation, when friend and for are closely intermaingled and the positions of neither are certain.
- 29. Beachfinding. Extensive mining near the 100 fathers line procluded any provious beach recommensance in the NORTHERN Sector. For the same reason, the laying of supersonic aids or the ass of marking submarines was ruled out.
- 30. The nodd for gunfire and rockets to cover the final approach of the first assault waves made the use of follows too hazarbus, nor would the time available (allowing for the moon to go down) have been sufficient for them to have been used effectively.
- 31. Choice of Lowering Position. The presence of raines and the impending early departure of the LSI after recovery of their craft dictated a lowering position for the British section of the NORTHERN Asseult outsile the 100 fathern line.
- 32. This was accepted, with the disadvantage of a 9 mile runin for the assault craft, and ISI remained stopped for six hours under weigh. In less favourable weather conditions, this would have been difficult.
- 33. In the United States section of the assault, all assault craft were carried by the 6 lavit IST, a most sensible arrangement.

Accordingly, the Task Group Commander swelt the whole of his assault convey in to a lowering position inside the line of mines and four miles from the beach, where it was possible to anchor.

- 34 The relative immunity of IST to sorious lamage from mines justified this course. As expected, this convey became a target for rather indifferently directed cunfire from shore batteries.
- 35 It is considered that, in reasonable weather conditions, a spacing of four miles between lowering positions of neighbouring divisional assault conveys is not too close.
- Army Must Take Their Equipment Ashore. It is considered that the importance of the Army taking their equipment and arminition with them when they land should be further impressed upon them during training. On every operation in which RINCESS ASTRID has taken part, it has been found that the Army leave large quantities (up to 50%) of equipment and armunition on board. Much of this, including primed hand grenades, mortar bombs and demolition charges, is to be found on the Troop Decks, together with rifles, automatic weapons, webbing equipment and food in one great middle after the troops have left. The large notices on my Troop Decks TAKE YOUR AMMUNITION WITH YOU. YOU WILL NEED IT have not done much to improve this situat/APSOTION B

/SECTION B...

SECTION B

(Extracts from Report by Captain IST, Mediterranean)

Landing Ships Tank

- 37. Shelling from Shore and Snoke by Assault Force. Shell fire was encountered off Reger beach at times throughout Thursday, 9 Sep, evidently at long range, for several ships were straddled by shells which detenated in water very close each side. If ships kept moving, however, they ran little risk of being hit.
- 38. IST 319 burned snoke floats from the storm, and although the ship and beach beyond were obscured, this did not prevent the enemy battery from continuing to plaster the target.
- 39. IST 324 (Liout. Commander A.J.Bell RNR) beached near this Losition and had shells pitching close to part side. His report says:

"Whilst on the beach I was ordered to make sacke by the beach master. (This order was later cancelled by Cartain IST verbally). I found that the sacke was sucked into the tank space by the fears, and, in spite of ventilators being opened, the tank deck became almost untenable, and if this had continued it would have hindered discharge considerably, as neither RUO's or krivers of vehicles were able to see each other. As it was, it very approximably delayed discharge and hindered other IST from beaching. I found it impossible to see the beach or beach marks at times when running in.".

- 40. Shelling of Beaches. IST should remain on the beach for as little time as possible. This can be accomplished as follows:-
 - (a) IST should beach and unload tank look and back off: Time to do this: 10 to 20 minutes.
 - (b) Next ship cones in and loos likewise.
 - (c) Ships who have backed 'ff get Upper Dock cargo down on to the tank dock, then beach upain and back off when cleared.
- 41. There appear to be 3 distinct advantages to be gained by this method:-
 - (a) Guns and tanks are generally leaded on tank decks, therefore a heavy return punch is provided for the soldiers at once.
 - (b) Ships on the move stand less chance of being hit.
 - (c) Ships are on the beach for the minimum of time.
- 42. The disadvantage of this method is that it may produce such a stream of traffic at one time that it may produce a jam.
- 43. Ships Should Carry Beach Matting. Here was a case of a beach which was expected to be poor, turning out to be ideal. IST were beached in groups of 6 or 7 and as close as 60 feet apart. If each ship had carried rolls of beach mat in the bows, she could have laid her own track up to the beach lateral road.
- 44. BUT, there is no advantage to be gained from this unless the exit routs are good enough to handle the traffic atriving to get may from the beaches. Some complained of delay through voltales bogging in

Jack Books

- 48. Next, it is imporative that IST beach at 8 knots or over. A good long straight run should be taken. It is no good going full speed with engines over a short distance, for the ship has not time to get her speed. All ships who took a good run at the speed run up with a dry ramp.
- 49. Ships should not beach lown closer than 40-50 yards apart, for there is risk that an uncontrolled sheer caused by coming over the folso beach may result in damaged bow closes or worse.
- 50. <u>Analysis of Unloaling Times</u>. Ananalysis of reports received (which are not yet complete) gives the following useful information:
 - 6 ships of 1st Flotilla unloaded at an average of 2 hours 11 minutes. 4 ships of 3rd Flotilla unloaded at an average of 1 hour 57 minutes. One of these ships unloaded over a ponteon causeway in 2 hours,
 - 03 minutes. 6 ships of 8th Flotilla unloaded at an average of 2 hours 22 minutes.
- 51. It should be noted that later in the day times grew longer owing to traffic congestion on beaches and exits.

/SECTION C...

MILES DE LO

(Extract from Raport by Captain, 12th Minemeoping Flotilla),

- 52. Difficulties of Beachinging. As in MURIT, so is AVALANCHE, the Senior Officer, Floot Minesweepers, most satisfus moments were caused by his doubt as to the best doorse to seem from the Release or Lewering position towards the bests. In AVALANCHE the navigational problem of eaching the correct Lewering for Fight was not difficult. The configuration of the land gave ander fixes; the visibility, even after moonset, allowed visual fixes; the American beachfinding mids to the NOPTHWARD served as a chack. These conditions, however, could not be foretoid.
- 53. Unfortunately, the beachfinding beacons for the cascult from LP 2 were not in place in time for the minesweepers to follow the seaward end of the channel which they marked, and the result, when at last they did appear in a position not exactly correct, was an alteration of course in the middle of the approach which gave a tortuous line of dans, as well as being personal hazardous for the Sweeping Force.
- 54. It would persups have been better for the Eweeping Force, in this instance, to have disregarded entirely the beach inding beacons. The Senior Officer's appreciation at the rement, however, was that since assault craft following behind would almost certainly steer for the beacons which they had been told to expect, the swept channel should, so far as possible, be made to coincide with these beacons.
- 55. It is submitted that no efforts can be too great if they will ensure that the swept channel from the Lowering position to the exact desired position opposite the assault touch is accurately and punctually swept, as this may well affect the entire result of an operation.
- The Sweeping f n Joseph Botch after the Pirst Lusmit Stage.

 Both in Operations HTTPY and AVAILABRE, it was desired to sweep an area of considerable size impost toly off the beaches at first light after the assault. On both acc stone, although the sweeps were started immediately the consulties and other incidents of the night's sweep permitted at, it was found impracticable even to search as much as 50% of the area desired before the inpatient traffic of Landing Craft towards the beaches rendered further operations futile.
- 57. It was fortunate that the whole anchorage off the beaches was already clear of mines. Had it not been so disaster was inevitable, unless all traffic had been held back until a clearance had been made.
- 58. Since it is clear that no avoidable delay in running traffic to the beaches can be expected, no constructive suggestion can be made, and it is considered that reliance will have to be placed on an efficient intelligence service ensuring that no assent beach is chosen where mines have been laid within the 12-father line.
- 59. Den Buoy Work. As usual, the work of laying dan bucys in this operation brought its crop of problems. Off SALERNO, wine lines were laid in water up to 135 fathers and possible deeper.

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In NAPLES BAY, it is believed that there are mine lines laid is just under 200 fathoms.

SECTION D

HEPORT ON COMMUNICATIONS.

(Extract from Report by Commodore, Force N).

- 60. W/T Communication. Communication throughout the assault period was very satisfactory, although congestion on all lines was acute.
- 61. Organisation. Two LCI(L) specially fitted with additional W/T equipment were used as a Brigade Meadquarters saips and carried the Local Naval Commanders for the sector. Communications in these craft functioned well, and, although delays occurred, information was received quickly by ENG() and Joinodore, N.
- 62. Seaborne GCI. The GCIs fitted in LST were used most successfully and, thanks to the calm weather, provided from the very first, a reliable source of information for the control of night fighters.
- generally swamped by land echces, due to the mountainous nature of the country. Consequently, no reliance could be placed in this firm of warning system. At the beginning of the operation warnings were often received through Y reports, but, swing to the indiscreet talk on VH/F by own forces, this warning was later denied. It cannot be too strongly stressed on the rinks of Fighter Directing Officers and RAF personnel concurred that they must not use inter-FDO VH/F communication as if it were a scramble itelephone.

64. Liaisor.

- (a) British United States corrunteati as worked well because limison was established a ly in the planning, and considerable use was made of limison parties.

 One FN Beach Unit Signal Officer with the necessary ratings to man Naval seach wave worked in exercises and operated in the assoult with the USA beach group.
- (b) In USC BICCIVE carrying the US Task Gr.up Commander under Commadore, Force N, the British Naval Liaison team manned Auxiliary, Bombardment Calling and Naval Beach waves, and assisted with British coding, and worked in this ship during exercise periods.
- (c) In HILLARY, the US Limison team manned the Task Force Commander's circuit for communication with the Naval Commander Western Task Force, and worked the ECM.
- (d) It is desirable that there should be an officer in every linison party, as, although the British and American may talk the same language, the wording of signals is different and cortain phrases mean different things.
- (e) It is recommended that, however good the British and Americans may become in working together, linisen to the should be employed.

operation communications is sound. It withstood a very long period of communication without any breakdown.

SECTION E

NAVAL BOMBARDMENT IN SUPPORT OF 10 CORPS.

(Extract from Report by Commodore N).

- 66. Over 300 Targets. Up to D plus 19 over 300 targets were engaged by HM ships in support of the landings and subsequent advance by 10 Corps.
- 67. Support from First Light, D Day. Supporting destroyors and LCG engaged direct targets until the possibility of endangering own troops prevented their support. One FCT established communication at 0500. Others sot through later. The following examples illustrate what occurred, and what, it is suggested, may be expected in other opposed landings:
- FOR "A" Landed at H plus 30 on the wrong beach. Seach under fire, and a certain amount of confusion. Pirst opportunity of setting up set was at 0445. R/T interference, but got through at 0500, and shot at 0700.
- FOR "B" Landed about H plus 30, catablished communication with attached ship and passed Sitrep shortly afterwards. At about 0700 18 M set destroyed and 19 set lamaged by shell fire.
- FCD "C" Landed C5CO. Pinned on the beach for about 12 neurs. Moved inlant and established communication about 730.
- FCD "D" Landed H plus 50. On beach all day. Exchange, strength of signals H plus 110. Cot through again without difficulty at 0800 and did shoot.
- FOD "E" Landed 0435. On beach just over 1 hour. Established communications about 0600.
- 68. All main beaches were under fire, and, owing to mines, troops had to pass through selected beach channels. Delays are inevitable under such circumstances.
- 69. There was an interval during which it was possible to give very little support. This occurred between the time when it was no longer possible to engage by direct fire targets near the beaches, owing to doubt as to location of own troops, and the time when FOIs were in a position to observe. Owing to the difficult terrain and heavy enemy opposition, FOBs generally took longer to get going than had been expected. Some method of usefully employing ship's gunfire in support during this period is a very definite requirement.
- 70. D plus 1 Day Onwards. From D plus 1 to D plus 19, daily support continued on a regular routine, with ships leaving to replenish ammunition and others arriving to replace them. Points of special interest are contained in the succeeding paragraphs.
- 71. ICO were found unsuitable for indirect bombardment,
 due to:- (a) Inferior communications
 (b) Inaccurate navigation
 (c) Primitive fire control system.

- /72. LOG were useful for close support during the early stages of the operation, and engaged direct targets resolutely and with greateffect. Even so, it is considered that the present LOG with its slow speed, clumsy manoeuvrability, lack of target indication gear and inability to fire ahead, except at the longer ranges, is not a really suitable craft for close support.
- 73. ICT (R) Up to the present no detailed reports have been received of the results of salves fired by these craft during the essault. One FCB reported that at 1000 on D day Germans were seen coming out of holes in a dazed condition. How much this was due to the Rockets and how much due to other types of fire it is difficult to say, but, as it was in the area in which the rockets had landed, it may be assumed that they were largely responsible for this satisfactory state of affairs. It is considered that these craft are a most valuable addition to the support of any landing, and a full salve of 792 rockets landing on the beach in front of assaulting troops is a most effective deterrent to any enemy in the vicinity. To be really offective they should be available in large numbers. There is, however, the danger that a salve may fall on the wrong part of the beach, as happened in one case, and the ICA steered for the point where the pattern landed. This was unfortunate, as it fell across a river mouth, which had to be crossed by half the assaulting troops before they could join up with their unit.
- 74. Reference Positions and Call Signs. There were indications that the enemy was listening in to BCW and, as there were casualties to FCB parties who were probably taken prisoner with their log-books etc., the reference positions were changed on alternate days, and sldp and FCB call signs changed daily. The standard "F" and "G" call signs were replaced by three letter call signs supplied by 10 Corps. It is suggested that three letter call signs and daily changes be adopted as standard practice in future operations.
- 75. Use of Artillery OP. On several occasions, FCRS were not in a position to spot, whereas an Artillery OP could. In such cases a FCD or BCW tentacle was informed, and made the call for fire, and the artillery observer spotted the fall of shot. Those observations were then translated into navel procedure by FCD and relayed back to the firing ship. The very slight lelay involved was negligible, and the firing ship was to all intents and purposes, loing an ordinary short with the attached FCB.
- 76. It is most strongly urged that in any future operation, the use of Artillery OP and Air OP should be carefully planned and practised beforehand, so that the fullest use can be made of every available means of observing ships' fire. Until these methods of obtaining observation had been evolved a number of indirect shoots were carried out without observation in order to fulfil urgent needs for ships' fire in certain areas.
- 77. BIOS and FORS and Parties. The work done by these officers and their parties ing the operation has been invaluable. Due to casualties amongst FOR process, it was necessary to take BIOS away from certain ships and lay them as FORS. It is suggested that in a lature operation more FOR parties should be provided, so as to keep a reserve, and that all BIOS should have the necessary equipment on board their ships in case they have to land. The BIOS attached to Divisional and Corps RO formed a most valuable link.
- 78. Effects of Naval Cunfire Up to the present it has not been possible to get exact details of the damage inflicted on the enemy by naval gunfire. nowever, it can be said that cruiser and destroyer gunfire was most effective in silencing enemy field gun batteries, and dispersing concentrations of MI tanks and infantry. In general, the

consumers of military opinion (10 corps) was that naval supporting as the office ive took shape. Owing to the restricted beachhood and land artillery. Naval cuns were able to add the necessary weight and volume of fire to make and this deficiency.

79. Extracts from Summary of Lossons Learned.
(Note: The paragraphs in brackets are CCO's remarks).

Given a loquate air cover and A/S protection, good weather conditions and and abservation, supporting fire from cruisors and destroyers is most effective.

- 80. During an apposed landing on terrain which is difficult for abservation, a methol must be levised whereby the supporting fire from ships can be fully employed until FOrs are in a position to take over observation. This might be achieved by:
 - (a) More definite information about positions of own troops, enabling ships to identify and engage apportunity
 - (b) The/R or Arty/R mircroft bein made available in large numbers and trained with ships to entage apportunity targets in rear of the beach areas.
- 81. That only cruisors of lostroyers should be initially attached to FOD for engagin; approximity targets, and that 15 inch solected pre-arrange; targets just suited to their heavy juns.
- 82. That the present system of bombar ment communications is satisfactory but that the substitution of a 22 set of r the 19 set is closirable and that crystal control for system of frequencies is absorbutely essential in the 13 M set.

 (These matters are being arrange. The No. 22 set or TCS (Collins 18 Q) will be fitted in vehicles.
- 83. That the LCR is a most effective weapon, and its use in large numbers is recommon to for future apposed landings.
- 84. That the BCW operations in the Headquarters ship rust be experienced loadin; Telegraphists with bombardment training. (Bombardment training, is being arranged).
- 85. That codewords, reference positions and call signs are likely to become compromised, and must frequently be changed during an operation.
- 66. It is essential that a full scale rehearsal with FODs and supporting ships taking part should be arranged on a bombardment range.
- 87. Although the necessity never arose in the 10 Corps area, it is a requirement that a common system should be agreed upon with the US Navy in order that the British ships can be quickly attached to a (One possible way of meeting this is by having BLOs trained in both British and US systems in all bombarding ships).

(CT. 217/14).

Amfair 4

-12-

SECTION I

DIGRAT OF A RUPORT FROM

Plan

88. The plan was for 807 and 1991 Smoke Coys to land early on D day with 46 and 56 British Dive to lay screens to cover their respective divisional beaches. The assaul, flight was to carry enough smoke material for a screen of one hour in the night of D day, while further further supplies were to be landed in successive flights to maintain the screen as necessary for seven days. Screening was to be against air attack and by night only.

Plannod Generator Sup; ly

89 50 tons for D day and 50 tons for D plus I worelooded in corps munition lighters due to discharte early an D day. As an insurance, 500 generators were to be carried by the operators landing from ICIs. 25 tons were due in an D plus J, D plus 5 and D plus 7. A ship due to discharge in Salorne carried 168 tons.

Transport of Sanke Coys

90. Each company was split between 2 LCIs. Company transport was four 5-tenners on 1 one 15-out.

Detailed Plan

91 A suitable subke circuit was brown on the may and livided into live sectors, each commanded by an officer and Lanned by two sections. The 56 Div beaches absorbed four f six sections, leaving two sections available for carrying make material, laying of telephones, etc., and free to take ver 46 Div screen later. The average length of each sector was 2,000 yls.

The Landing

- the total landed that night. A screen 2,500 yis long was run around the beach in use. Telephone circuits were run out with a line to GOR who were provided with red Verey lights, the alternative signal to make smoke. This screen was ready half an hour after dusk. Contrary to expectations, night raids were few; no smoke was made. A great deal more smoke was landed on D plus 1, and the planned screen prepared. It was agreed with the Navy to make smoke for any raid of over five aircraft. This was later reduced to three.
- 93 46 Div Due to considerable resistance met on D day, 807 Coy did not land until D plus 1, half a.m. and half p.m. By some misadventure no smoke generators accompanied 46 Div from Biserta. A large part of the planned circuit lay in German hands. 807 Coy moved to Salerno on D plus 2 with a load of smoke provided by 1991 Coy and a screen was ready to operate evening of D plus 2.

/94 ...

On D plus 2 resistance was subfined on the 46 Div beaches but the aftermath caused such confusion and traffic jams that the screen was not ready till D plus 4. When finally established, the screen was 14,000 yds long with 500 omission points, generators covering unused parts of the beach boing 30 to 40 yes sport and on the used parts 20 to 25 yls. Each sector had its own 3-ton truck and maintained its own scroon with concrators from the beach mmunition lumps. They were also responsible for collecting their own rations etc from Company Hondquarters. Each can had two or three loints of emission to maintain.

Method of Operating Screen

Until D ; lus 5 enony ni ht air activity was very light; no sinke was used. Wornings selon ove nore than four minutes notice; winds were light. Off-shore breezes blow till half on your after sunset then two to three hours of nearly dead calm stron, thening to a maximum of 8 mgh holf an hour after dayn. Due to short notice and low wind speed it was necessary that every man stood to his jost all night.

Decoy Screens

A locoy screen really to a ver iregard to refer and and ready but not used. On the might D plus 6 there and milliotwe in 2100 hours onl 2200 nears. The order to a ke stacke was not fiven be to a misunderstonding. As a result of this rely, the transfer of a sake for a set in the process of results of the rely. asked for sicke in the west of further related real level god t 0300 hours on the a cry made darke for the first time. The worder time was short and to win ally 3 min and a sink was late ver the Twen so the livey was lease. During this roll fire was storted in a getral function make a world by the orbital screen till by rock. This was a rest succes. At cloc hours on Dilus 7, HED HILMY low her strong to a role for stoke. The service covered the barches by the time the reist well as It laster half on a ur or in the following morning very to y urells comments were receive from the leach where it has not interfere with unloalin .

Use of Abile Serven.

One section formet and bile screen using 3-ton truck and 2 tong of scoke rety to screen fires storted at might. During the night a lone railer brails brubs on ind if the beach corodromes and set fire to several ireraft. The habile screen covered this for three and a half hours. The RAF Station Commander was most satisfied.

Effective Screens

On D plus 8 an urgent demant for masks was received from HAS HILARY to cover beaches from sholling. 46 Div line source was reinforced to 60 lbs/min from 9 lbs/min and a most impressive screen stretched into and boyond Battipaglia some 7 miles away. The beaches were completely hidden from the mountains and the shelling stopped. The screen was maintained from 1630 hours until dusk. It was a great comfort to all.

(Rof: CT 1355/43)

(See also peras 109 and 117 in Section G below). /SECTION C

REPORT BY COMO OBSERVER ON VISIT TO MEDITERRANGAN THEATRE IN NOVEMBER AND LECENBER 1943

(The following extracts from the Observer's report and from others to which he had access on the spot cover a number of points of interest not mentioned in the foregoing pages).

Preventing Beach Coservation

- 99. It is not reasonable to expect treeps, even if they land on the right beach, to move and fight inland over ground they have not seen in order to deny the enemy observation of the beaches by daylight. The denial of this observation is valuable, but in most cases not absolutely essential to the success of the ejeration, and rust, therefore, be considered a bonus.
- 100. Enemy infiltration were great source of verry. This is inevitable unlost every yard of the perimet r is under observation by us: even then, in order to entire that the beach group can verk unmolested by enemy ground forces, a strong mobile receive of fire power must be held at the back of every beach.
- 101. Closely related to 100 above is the requirement for a defensive element in the beach area. An Inf Coy is not sufficient. A small force of all area well equipped with carriers, anti-tank guns and automatic acceptance is acceptance if the beach group is to be expected to maintain a high at andered of work. The drop in figures of vehicles and atores landed during the days when counter-attacks were made at Salerno is most noticeable.

Arrunition in the Assault.

102. A suggestion I heard which I consider worth trying out is the replacement of the thwarts of LCA by full armumition boxes which are then duried on the beach. Another suggestion was the construction of hollow box thwarts for stowing extra equipment.

Limitations of DUKWS.

103. The DUKW is undoubtedly a wonderful animal, but its limitations were demonstrated at Salerno. Here MT Store ships had to lie from 2 to 4 miles off the beaches owing to shellfire until D plus 8. Secondly the reads inland to the dumps were narrow, and the DUKW is a wide vehicle; a bogged DUKW can hold up, and did hold up traffic for an inordinate length of time.

Control of De-waterproofing areas.

104. De-waterproofing areas just behind the beach must be well policed. Drivers were inclined to rip off waterproofing material anywhere, thereby blocking the traffic and westing salvage.

No Dumps on Stubble.

16. Dumps must never be put down until stubble has been burned.

/100....

106. If we truck for line and carrier for reer link to hipper formation should be added to 0.1098 of signals.

Naval Briefing of vital importance.

- 107. On two craft the skippers had no maps. The skipper of the craft carrying the Beach Group Commander couldn't hear a word of the briefing, being at the back of the room. He was finally told to follow another LCI in the dark. He lost it in the first mile and still had 60 miles to go.
- 108. Navel fire from LET and other creft was accepting the indistribute. 17f used f.r chatting other than it fire, fire test about the last controlled.
- 109. The following is an extract from a letter from CC., 20 Beach Group to HQ 3 Army -

"A smoke unit should always be included. On the Italian landing which the Group took part in, the beaches were retrared and machine-gunned most of the lay. At one time at MTB rut out a small amount of choice. It was invaluable. It shielded the craft and rave confidence to the can unloaded in them.

110. RAF personnel are too many.

Good Ferry Survice.

- 111. The successful build-up at Salerno was to a very great extent due to the smooth working of the ferry service. Since the Grass-channel operation presents a somewhat similar movement problem, though on an immensely greater scale, I investigated the system used in AVALANCHE in some detail. The smooth working of the ferry can be attributed to:
 - (a) The decision not to alter priorities after final bidding,
 - (b) Adequate communications from Corps HQ to the farry ports,
 - (c) The adequate representation of Corps staff at those ports.

afloat in HMS HILARY and ashore, and the three ferry ports, Agcuti, Milazzo and Tripoli. Each set was controlled by a Q or SD representative of Corps, Corps would allocate the empty LST to ports and the Navy would signal the number arriving. Priority serials would then be marshalled ready to embark. Corps representatives would then signal back serials embarking and ETA at the beaches. After the LST had left for the beaches, movements would confirm numbers on passage, loads and ETA.

organisation of Ferry Termini.

113. In order to ensure the smooth working at the ferry emberaation ports, ligison posts were established by IN 10 dorps as follows:

/Ader Post.

/Adm. Post - Tripoli
SD Post - Egouti
SD Post - Milezzo

114. The duties of these posts were:

- (a) To ensure, in conjunction with Q. (M), that LET convoys were leaded in accordance with the pricrity laid down beforehand,
- (b) To maintain communication with main Ha, 10 Corps and keep them informed as to dispatch of units by convoys,
- (c) To implement such alterations to the priorities as ordered by the Ferry Control Cormittee.
- (d) To act on behalf of HQ 10 Jorps in giving all assistance possible to such units and detachments of the Corps coming into the area.

Ferry Control

- 115. With effect from D day, a Cormittee to control ferry priorities was established at HQ 10 Corps for the following purposes:-
 - (a) To decide priorities in the LCT ferry service between MT ships and beaches,
 - (b) To decide priorities for LST and LCT ferry service between Sicily and the mainland,
 - (c) To obtain latest information of the farry service from Agouti and Tripoli,
 - (d) To make any alterations required in the priority of units to be ferried from Agouti and Tripoli (such alterations were only made as an operational necessity.)
 - the ACMC(M), whose duty it was to take executive action as necessary to implement priorities. The committee consisted of representatives from G. Ops, Q and RAF. RA., RE Signals and Services were asked to send representatives if necessary, but normally any requirement was made through G or Q.

Smoke Sickness.

- 117. Smoke used in the beach area made personnel working on the beaches sick.
- 118. Although there was no sand bar at the beginning of the Operation, the continual churning up of the sea bottom by the screws of LST caused one to form. This resulted from LST not beaching boldly enough, thereby having to keep their engines soins ahead during disembarkation.

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119. COMPARISON OF PLANNING FIGURES WITH RESILES.

Shipping and Graft	Planning Figure	result.
LST	200 personnel) 50 vohicles) Assault 300 personnel) follow- 55 vohicles) up Tire of discharge 4 hours allowing run-in and pulling off	Average of 15 vehicles in assaulting convoy and 65 in follow-us. This diffurence is one to minter of DOKW's in assaulting convoy. Tire of discharge correct.
LCT 3	10 vehicles or 8 Shermans.	Average 12 vehicles
LCT 4	12 vehicles or 10 Sherrans	Average 15 vehicles
LCT 5	8 vehicles or 5 Sherrans	Average 10 vehicles
All LCT	Unloading stores from MT store ships. 1 turn round a day with 150 tons.	with average of
MT Ships	Discharge 100 tons per hatch per 24 hours.	Correct.

Decision Wanted.

12C. If the Coptain of a LCT (R) has picked up his target but sees the Infantry vecting off to a wrong beach, is he to fire at his original target or to follow the LCA and give the Infantry direct support on the wrong beach? This should be lecided by Force Commanders before any operation.

121. At a partent conclusion reached in the Mediterranean which should be noted for the Cross-channel Operation is that if LCT (R) are less than 3/4 mile apart, Radar interference becomes bad.

Airfield Construction

122. Mo airfields were constructed on the actual beaches. Single strips were laid in fields within 500 yards of the beach.

(The following is extracted from Reports by FMLO, 56 (LON) DIVISION (PHASE I - D DAY - D plus 19) and MLOs, 3 and 2, BEACH GROUPS

Flanning

123. Owing to the constant changes in allocation of ships and craft we were actually loading vehicles into ships while still planning the stowage of vehicles on ships which would land later in the assault, and in the end the position became so had that we need to work on a day-to-day basis in giving the details of the vehicles to be stowed on the ships to Mov and Int. Tripoli, and the units concerned, which meant that some units had very little the compare for embarkation. This also entailed the said.

132. By 1200 on D plus 4, the cir strip at RECEN beach had been opened up and Spitfires commenced to land.

Responsibility

133. It was obvious that the MLO who is going to be made operationally 'responsible' for the beaches must be the principal advisor to the Ble Cmdr during planning, however late he say arrive, in order that he may state whether he approves or disapproves of anything which has been done on his behalf during his absence. I do not consider that sufficient importance has been attached to the briefing of the CC Fd Coy in the past, as he is also of inestimable value to the CFE Liv.

Layout of Maintenance Area P plus 1

- 134. The while oren wish mass of vehicles and men, and dispersal was altest in posible owing to the deep ditches on either side of the roads. This was suffered no air attacks is a great tribute to the MAF.
- 135. One instruct I he shows the unusual aspect of the situation: the Bitteries of the Fi Hert were in positions some LCC yards 600 yards to accumulation dump.

Catuation in Maintenance Area 3/17

136. Our Petral Febet was very open an our right and subject to shellfire on that exclunt, and it is now quite apparent that until the fire has established its bridgenead, dispersal of ane's maintenance area is out of the question. It is essential that all one's dumps are behind one's forward through and not mixed up with they, and this also means that in the carry stages, where a quick build-up is essential to obtain a reserve, one has the advantage of having the sc-often-stressed short turn round for vehicles operating to dumps, and one is free from interference by tactical road moves.

Reaction of Beach Units to El.

137. Quite 95 per sent of the Beach Group had never been under fire before and they showed up surprisingly well. An average of 650 tens per day with a peak of 955, was kept up over the first 7 days. Air rails also atopped work at night, more, I think, because of our own barrage than from bomb danger.

Night Work not worth Cast.

138. Unless one has a large reserve of labour, night work on beaches should not be carried out except in real emergency. It exhausts one's labour too quickly, and the results shown are not worth it,

Stowage of Craft and Stores Markings.

- 139. With mixed loads of annunition, one cannot sort it out correctly at night, and valuable time is wasted.
- 140. If each LCT spent an extra 2 hours alongside the ship and block-stowed by types, 4 hours on each craft would be saved on the beach and wastage of labour would be all minerals.

Creft cotticus.

-20-

Craft Control

141. It is strongly recommended that in future operations every MT and Store ship should have its own AMLO, all such AMLO's to be under the command of the control AMLO.

Loading of LCT and Stores Priority.

142. Loading of stores from ships into LOT was generally very poor. Owing to bad stowage, many craft were on the beaches for more than 24 hours, due to the immense amount of serting necessary. Some LCT on inspection showed a complete mountain of mixed stores, proving that eargo nets had been slipped at one end and stores dropped into the craft with no attempt at stacking. Such stores could not be moved during the hours of darkness without danger to personnel.

(Ref: CR. 208/44).

INFORMATION

HOUTING SHEET

subject Transmittal of Material recd from EJSM

		7		er paryment to the last continue the state of the state o	
	To	Room	Date	initials	Control
		No.	Rec'd Pwd	4	Indicate sation desired or said
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	wirs. O'Donnell				

For examination, comment and return - W.J.D.

SECRET

DIRECTOR! B OFFICE

שנון עו stroight. l. Inclosed is Menticly Industrian Susanity . 9 de sed 15 Pebruary 1944, which has been weserved from Captuin H. D. Tollamache, R.M., Chief of Combined Operations Supresentative. For the M. C. of S., Gall R. n. Guttune ocipt for roturn to Capt. Talls seipt for return to F.L.B. (dup).

BRITISH JOINT STAFF MISSION OFFICES OF THE COMBINED CHIEFS OF STAFF WASHINGTON

8th March, 1944.

Commanding General, Office of Strategic Services, Washington, D.C.

With the compliments

of Captain H.D.Tollemache, R.N.,

Chief of Combined Operations Representative.

COST SECRET

In reply, quote:

MIS/46434

Combined Operations Headquarters, 1/. Richmond Terrane, "hitchall, C.",1.

15th February, 1944.

CITHLY DIFORMATION SUMMARY.

Mo. 9 of the CCH Monthly Information Oursary is forwarded Acrewith. Much of it is MOST SECRET, and opecial care should be taken to ensure that no unauthorised person are coese to it. A new Listribution List is enclosed.

2. Nost of the information has been issued more fully in the CCHT Bull time to which reference is made. These have been distributed according to their contents, but any recipient of this Surmary who requires a Bulletin which has not been sont to him should apply to CCHC, stating the Series letter, the number, and the title of the Bulletin.

3. First II of the Surmery is confined to reports on Trials and Experiments. Bulletins issued under this heading are necessarily restricted in distribution.

Chief of Staff for C IEF CF COMBINE CFTR TICKS.

Despatch Department,

Combined Operations Headquarters,

TA Richard Terrace;

Whitehald, IONDON, S.W.

(1)

net 1600

CODY NO. 3/5

COMBINED OPERATIONS HEAD UARTERS

MONTHLY INFORMATION SUMMARY NO. 9.

January 1944

PART					
	0(0		4) 43		

Differing Troublets of Landing Traft of the came type when carrying equal loads.....

British Beach Markings.....

SECTION C.

LESSONS LEARNED FROM CONTINUED OPERATIONS

OPERALI LOND
Infantry Experience with LCI(L) Embarkation
Damage to Ramps
ples for Distinctive markings on deck
Ship's Stores in Alleyways
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Sea-Slokness

eclassified and Approved For Release 2013/09/16 : CIA-RDP13X00001R000100220001-

(11) SECTION C. (contimed) Gooking Briefing..... Photographs..... Reports on Salerno Landings SECTION D. 5 INFCRIVITION FROM ABROAD SECTION E CCLBLOED CF FATIONS FUBLICATIONS CTIER THIN TRINING PLATHLETS. 6-10 Gatalogue of TOMA Bulletins..... SECTION F COMPLET TRUMPS 11-13 Catalogue of Training Parpolats..... Amendments to Prophlets 500-16 Aircraft Stoke 5 mt Nork 13 Specimen Order of Landing of Medical Witter. 13

(FOR INFORMATION CONCERNING TRIALS AND EXPERIMENTS, SEE FART II OF THIS SUMMARY.)

STICT LON in

14JOR POLICY DECISIONS AFFECTING 3 AS AND CHANGES OF ARCA (STATION IN CO. CANADO.

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THE TEST OF ALT WEST.

Guides fr 'i't he tinh ding LCT ff.

it is the coincided to spin constant to sput for it in present the fight page 20. The cruit coiled for eight land a conduction, it is supported to the complete the appropriate.

- 2. Free first form to runs for feind wide white trug to be point for the centre for taken of fraging filling and LET up on their carried.
- 3. Three, hold be taken that this strap . In the start (See parameter 16 to large

(JR. 679/LLY.

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4. It is not one of the fare tent in the ending the Wir Offic and the Air limitry, that the title of the Fare reconstruction officer (Movel) (FCC (Movel) and I to changed to Forward Observer Loub rule to (FCC).

(CR. 11559/43)

The Planning of Corbined Operations (Bulletin T/4).

- 5. This bulletin was published for information and does not necessarily reflect the policy of this Hondquartors. It is a reproduction of one of several rejects which will be used as a basis for revising Corbined Operations Famphlet No. 4 (b) Planning (Arry) and, read in conjunction with this pamphlet, should be of value to all recipionts of the Bulletin.
- 6. The following comments by ISSB on Section 8 of the Falletia are published for information -
 - (a) Faragraph 49 "Bigot" procedure (i) "Bigot" procedure is world wide; although it may be described as a code word, it is really a procedure, like "Most Secret" or "By Hand of Officer Only". It is therefore wrong to refer to "Bigot or similar code word". (ii) Similarly, if a cover order red.

- /is used for a group of operations (such as "BCOM" covering "GCO" and "MAGCO") it is debatable whether this does not usurp the functions of the "Bigot" procedure.
- (b) Paragraph 51 (c) Lists of win the known officers have been tried when planning operations and have been found unsatisfactory. "Bigot" correspondence should be opened only by the clarecese, or, in his unavoidable absence, by his second-in-c runned or senior staff officer.

(CT. 1369/43)

Loads and Draughts of LCT (Bulletin T/9).

- 7. The footnote Z to this Bulletin pointed out that the maximum vehicle load of ICT is less than maximum har ageneous cargo, and suggested that the difference was only a not in a farmage. Captain, Major Landing Craft, has been informed by the Director of Maval Construction that some reduction is required for stability, and that it is not desirable, therefore, that any planning should be based on the assumption that the difference between these two lands can be made up by the addition of stores.
- 8. With reference to para, 3 of this Pulletin, it should be noted that the maximum permitted vehicle load is greater than LOT(3) and LOT(4) can account late with the existing vehicles. Any water ballast carried must be added to the weight of the vehicle load for the purpose of determining that the last carried does not exceed the maximum permitted.

(XR. 1960/43).

Differing Droughts of Landing Craft of the Sone Type when Carrying Equal Loads.

- 9. Figures relating to the braughts of landing craft of the same type when carrying equal loads will frequently be found to vary slightly as between one case and another, even when the weight of fuel, fresh water, stores, etc., is nominally the came in each case.
 - 10. Such differences are due to -
 - (a) the fact that every ship or craft, even when built to the same specification, and in the same yard, almost always differs slightly in its dimensions from other ships or craft of the same class;
 - (b) the exact measurement of the weight of fuel, fresh water, stores, etc., carried in a ship or craft is difficult, and the degree of accuracy attained will almost certainly vary as between one case and another.
- 11. In the planning of Combined Operations, therefore, this fact should always be borne in mind, so that too such reliance is not placed on the exactness of any given set of figures for the draughts of landing croft of the same type carrying a given load.

(CH. 804/44).

ATALIST ELSER SET SET SUCCESS

British Deach Markings

.12. Forceroph 13 (b) of section 13 in page 5 of MIS No. 8, Part I, should be disreparted until further actice, as the requirement there laid down is under reconsideration.

13. This refere to the fitting to all Landing Craft of a wreck buoy, which would "watch" automatically should the craft sink.

(CR. 804/44).

/14 ...

Declassified and Approved For Release 2013/09/16 : CIA-RDP13X00001R000100220001-9

SECTION C

REPORTS ON OPERATIONS

"if ntry 'x orionoo with ICI(L)

(The following report conveys the impressions of an Infantry Company Commander who embarked from a LSI into a LCI in the assault on Sicily)

- /14. Embarkation With the heavy son, the rise and fall of the ICI alongside the ISI made embarkation difficult. It was quite an ordeal for the soldier who had to jump in the larkness, apparently into space. The Commanding Officer of the ISI had endeavoured to break the fall of the soldiers by means of sail cloths laid on the deck, but in spite of this it was almost impossible to retain one's footing. This was one of the most unpleasant ordeals that the troops had to face. However, it was done without any serious casualtics.
- done to one of the landing ramps, so that when the LCI beached it was definitely realised that one would not be in action. This did not upset the troops, because they had alternative plans in case one or other landing ramp should be out of action. But unfortunately the remaining landing ramp, when hoisted out partially on the way in, stuck, so that on beaching no working ramp was available. The one that had stuck was cut away and was for a time of use, but it soon parted from the ship and the soldiers were then reduced to climbing down the side of the LCI on ladders, which, of course, all took much time. Fortunately, there was no opposition.
- 16. Plea for Distinctive markings on deck Two other points were emphasised from the soldier's point of view. One was a plea that the innumerable excrescences that exist on the deck of a LCI should be painted white to assist movement in the lark. White lines down the ramps are also asked for, and on other parts to assist in this difficult problem of getting troops quickly out during darkness. (See paras 1-3 above).
- 17. Ship's Stores in Alleyways Another point is, for the same reason, that alleyways must be kept clear of the ship's stores. This seems obvious, but with the limited space on board a ICI and the extra rations and other gear that have to be carried it is not easily solved by the sailors.

(The remaining paragraphs refer to passage on board a ICI from Africa, via Malta, to Sicily.)

- 18. <u>Sea-sickness</u> Other than about sea-sickness, there were no special comments from the officer questioned. His ICI was equipped with bunks, and the men were not very overcrowded. Initially, the weather allowed troops to sit up on deck.
- 19. Cooking In one ICI, the military company used their fuel cooker in the enclosed space forward without any difficulties. In another, they were given the use of the galley, and in both cases one will for two meals each day.

/X. Briefin

- /20. <u>Briofing</u> In cach case, briefing for troops on board IOI that touched at Maita was carried out under Company extrangements on departure from Malta.
- 21. Photographs Young officers emphasised more than anywithing the necessity for detailed photographs down to plateen commanders. With the excellent modern photographs taken by the RAF, it is quite possible to study the ground so intensively as to be able to move ever it in the lark almost with familiarity. But they complain that it is solder sufficient photographs are available and in good time.

(Rof: CT/13C/14)

Reports on Salorno Landings (Bullotin 7/23)

22. This Bullotin will be distributed to all recigi mts of this Summary.

(CT 217/44).

SECTION D

INFORMATION FROM ADROAD.

Nothing for promulgation through this channol.

STOTION 2

COMBINED OPERATIONS FURLICATIONS.

COHO Bulleting

23. The following is a complete list of COMM Bulletins distributed or in proparation, with a guide to the Monthly Information Summaries in which their contents have been described. A few copies of most of the Bulletins are still held at COFM and will be issued on request.

24.	Sories T : Tactice, Equipment and Tochniq		er a marks	F4
T/l	(a) Use of RHI Equipment in Landing Craft (b) Necessity for a Post-Assault	7	Part	2
	Hydrographic Survey (c) AM Dofences of Forts through a	7	1	2
	Smoke Screen	7	1	13
T/2	Airfield Construction in Sicily and Southern Italy	7	1	3
T/3	Radic, Asdic and other Aids to Navi- gation in Combined Operations	7	1	2
T/4	Air attack of Airfields	7	1	3
T/ 5	Cang≪llod			
т/6	Australian Junglo Warfara	6	1	7
T/7	Concentrations of Observed Fire - controlled by Air OP	7	1	3
T/8	Notes on the Army Planning of a Combined Operation (Sea Voyage) (See Section E, para 5 above).	8	1	7
T/ 9	Loads and Draughts of LOT (See Section B, paras 7-8 above)	8	1	7
T/10	New Brigado Landing Table	8	1	7
25.	Series Y : Reports on Operations			
Y/1	The Planning and Assault Phases of the Sicilian Campaign	6	1	10
¥/2	Air Aspect of Combined Operations in the Pacific Theatre	6	1	n
¥/3	Report on the working of 35 Beach Group at Salerno	6	1,	\mathbf{n}^{\prime}
Y/4	Control of Fighters during the Sicilian Landings.	6		10

			TE 110.	Zert.	luc.
/	Y/ 5	Naval Lessons from JANTZEN (now re-numbered Z 1)	6	I.	12
	Y/6	Digest of Notes and Reports on Operation HUSKY	6	ı	10
	Y/7	Answers to US Engineers' Quostionnaire on Operations in North Africa and Sicily	6	1	13
	8 \ Y	Operations AVALANCHE and BAYTOWN	6	1	12
	Y/9	Exercise PORPOISE (now re-numbered Z 2)	6	1	13
	Y/10	Operations POSTERN and DIMINISH	6	1	\mathbf{n}
	Y/11	Canadian Notes on Operation HUSK	<i>t</i> 6	1	15
	Y/12	Royal Artillery Notes on various Operations	£,	ı	1 5
	Y/13	Final Report on Guadalcanal	7	1.	
	Y/14	Advance Notes on the Fleet Air Arm Operation at Salerno	7	1	ŕ
	Y/15	Cancelled			
	Y/16	Naval Experiences gained from Exercise PIRATE now re-numbered Z 3)	7	1	7
	Y/17	Guadalcanal (Longer version of Y/13) See	7	l	6
	Y/18	The Landing Operations on Attu, Aleutian Islands, 10-18 May 1943	7	1	6
	Y / 19	The Capture of Termoli (Operation DEVON and POLYGON)	ns 8	1	8
	Y/20	Summary of Naval Bombardment in the Mediterranean, 1943.	8	1	8
	Y/2J	L Reports on Mediterranean Operation	ons 8	1	8
	Y/22	2 Extracts from 8th Army First Lessons from HUSKY	8	1	8
	Y / 2) Reports on Salerno Landings	9	1	5

26.	Series U - Organisation	MIS No.	Port	Pego
บ/1	Maintonance of Army Equipment for an Expeditionary Force when the Main Base is not in the Theatre of Operations. (formerly numbered S/3)	6	1	6
U/2	Group and a Beach Group (formerly numbered S/4)	6	1	6
ν/. U/3		6	1	7
ぴ/ 4	Formation of Craft Recovery Units	8	1	7
ช/5	Revision of U/l (see above)	8	1.	7
27.	Serios V - Signals			
v/1		n,		
','-	Signal Office Lamps, Waterproofing of Signal Equipment, HQ Ship Signal Sections, etc.	f 7	1	2
v/2	2 Summary of Decisions taken on Report Communications and Radar during Ampl Operations in the Mediterranean from to September 1943, with extracts from MAC Reports.	nibious n July	1	2
28.	Series W - Information from Abroad			
₩/	Japanese Defence Positions in New Gand Smoke-Laying to Screen Landings	uinea 6	ı	16
29.	Series Z - Reports on Exercises			
Z/	1 Naval Lessons Learned and other Not on Exercise JANTZEN (formerly numbered Y/5)	es 6	1	12
Z/	'2 Exercise PORPOISE (formerly numbered Y/9)	6	1	13
Z/	/3 Naval Experiences gained from Exercise FIRATE (formerly numbered Y/16)	7	1	7

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x/1	Landing of Metor Cycles	<i></i>	ž 2	0,	
X\5	Report on Rogers, Jahn, Eagle and Haslar Trailers for Carriage of Beach Roadway.	7	2		e i get e n
x/3	Causeways for Mud Flats and Tidal Estuaries	· · · · 6	à à	7	
X/4	Carriage of Beach Roadways or Inverkip Sleigh Trains	6	5	7	· · · · · · · · · · · · · · · · · · ·
x/5	Rock landings - Triels to de mine most suitable eraft	ter- 6°	S	1	15. 4,
x/6.	Filling Craters on beaches with Mechanical Equipment	7'	5 "	r û	
x/7	6-pdr A/Tk gun and 6-pdr tra towing vehicle - embarkation and disemburkation tricls	iaked 1	2	8	ļ.
x/8	LOT 4 and 5 - Super Docks	7	2	1	
x./^	Landing Ship Deck (LSE)	?	•	1	
x/1	10 Handonrts	7	2	5	
X/:	ll Service Respirator - Use of Life-Saving Device	6 as	2	9	
	13 Report on some Special David for Overcoming Beach Obstac	icos cles 9	2	5, 8	æ 9.
	. I.T. and 5 - Cambuflage of	overs 8	2	7	
:.,	11. Trunching Snake from LCT	8	2	6	
	/15 M_ Pontoon Equipment	8		8	_
X,	/16 American 4.5* Rocket Launc	hers	(in prepar	ration)	5
	/17 Classification of Beaches Use of Euach-Tester		đo	·• •	e e
	/18 Actuation of Anti-Tank Mil by Grounding Landing Craf	•	do	?.	•
>	(/19 Ferrying Artillery Equipm Amphibians.	ent in	9 2	2 " eration)	ë .
-	x/20			9	. (
:	X/21 Passage of Under-water Of Interim report on Trials	x/22	9		
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	MIS No.	Parv	Page
/ X/22 LST 2 Hospital Trials	(in p	raphre	tirn)
X/23 LST 2 Discharge of Stores	9	2	13
X/24 Seagoing Disguise for Ships and Craft	(in	prepar	ntion)
x/25 Wading Trials of Unwatter- profied 'B' Vehicles	9	2	5
x/26 Amphibians	9	2	5
X/27 Use of Berago Jacks for Manoemering Vehicles in LUT and LST	(in	propar	ntion)

Training Pamphlets.

Sec Section F (helow)

- 11.

SAUTTUR F

COMBINED TRAINING.

Training Pamphlets

31. The following is a list of Combined Operations pamphlets already issued or which it is intended to issue in the near future:

Combined Operations Pamphlet No.	CENERAL SERIES	Issuod	in noar future. (Approx, date of issue).
1	General	Sep. 42	.pril 44 (now issuo)
2	Boach Organisation and Maintenance		Har 44
3	(Air Aspect of Combined Operations ithin hange of Shore Lincoln Lincoln.)	o ~	.er 14 (now issuo)
4 (b)	Planning of Combined Operations (Army)(Se	March 43 cret)	•
5	Smoke (see para 32 below)	June 43	
6 (a)	Military Communicati in Combined Operation		Ing 44 (new issue)
(b)	The Boach Signal Uni	t Feb 43	
(o)	Navel Communications in Combined Operation		
7 (a)	Support of the Assau (Secret)	ult Dec 43	
(b)	SP Artillery	Nov 43	
(0)	Goneral Rules gover Naval Supporting Fi Combined Operations	re & details	Nor/Apr 44 of Unit.
8	Assault Brigade Platincluding preparatiof Landing Tables		
9	Responsibilities fo Loading & Discharge of Ships & Craft	Nov 42	
10	Abbreviations & Definitions	Jan 44	

PLYAL SEETS

NAVAL SERIES

Combined Operations Pamphlet N	<u>o</u> .	Tomas	in near future
11	Landing Ships Infantry	<u>Issued</u> May 43	of issue).
14 (a)	Minor Landing Craft	May 43	
(b)	Landing Craft Signal Pamphlet (other than ICT	Arres 1. D	
(c)	Landing Craft Tank & Landing Craft Flak (Larg	More 1.3	
(a)	Major Landing Craft - Signal Pamphlot	42	
(e)	R/T Frocedure Pamphlet	Nov 43	
17	RN Beach Commandos	Apr 43	
	ARMY SERIES		
31	Driving Instruction for Combined Operations		' Mer 44
33	Arthoured Fighting Vehicle	s May 43	
34	RA.	Apr 43	
35 (a)	Royal Engineers (other than Th units)	in r 43	Mar 44 (new issue)
(c)	RE Transportation Units	Fob 43	Apl 44 (new
36	Underwater Obstacles (Sec	ret)	issue)
37	Infantry	Feb 43	• * * * •
38	RASC	Mar 43	
39 (a)	Medical	Jan 43	
(b)	RAMC (see para 33 below)	Sep 43	
40	RAOC	Dec 42	Apl 44 (new issue)
41 (a) & (b)	REME	Oct 42	Her 44
(c)	REME - Waterproofing of Vehicles & Equipment	0ot 42	(new issue) Mar 44 (new issue)
42	Training at Home Stations	Apr 43	· it frau mang)
43	imphibian Vehicles, Operation, control & maintenan		Mat/401 44

PARSON

/RAF SERTES

Combined Operations Pamphlet No.

Insuod

51

RAF Sorvicing Commandos in Combined Operations

Sing 44

UN-NUMBERED SERIES

Short immphlet on Boach Organisation

Don 43

Gunnery Instructions

Sep 43

Assault : Light Scales Purt I - Amoured Division

II - Infantry Division III - Units of a Beach Sub Area : Boach Troup

IV - Units of Corp. 'roops 7 - Units of Army Troops)
7 - Units of GH, Troops)
71 - Units of L of C Troops)

Doc/Jan/Fob 43-44

TEVISION OF FAITHLETS ALREADY ISSUED

Addondum to Parchlet No. 5 - 'Smoke'.

The following should be added to Appendix "C" in page 20 or Combined Cherati as amphlet No. 5 - 'Smoke'.

Туре	Description of weapon	Screen	Remarks	Types of mircraft on which carried
Smoke Aircraft 500-1b Mk.I	Light wells sheet steel bomb a ntain and 270-lbs white phosphorus. Durster charge is detonated by tail fuse.	Totals emits for 10-20 mins. depending on character of ground.	Does not function on water. Cannot be dropped from above 500-ft as it buries in soft ground or breaks up on hard ground	Pritish or

(CR 11,140/43)

Amendment to Combined Operations Pamphlet No. 39 (b) 'RAMC'

33. In Appendix "C", page 21, Specimen Order of Landing of Medical Units, delete serials 9 and 10, and substitute:

Scrial

Estimate of Time

9

CCS

Late D Day

- Light Scales

10

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(CR: 804/44)

COMPLET OF A CHOICE STATE OF THE

KONTHAY INTORNATION SUMMERS NO. 9.

LANGEY 134

PART II - TRIALS AND EXPENDENTS

	Contents	Dis
	SIN FO AND CRAFT	
2.	New L.S.I.(L)	1
	SECTION B SMALL BOATS	
	WIL.	
	SECTION C VEHICLES - WHEELED, TRACKED & AMPHIBIAN	
3. 4. 5.	Amphibians	2
_	Disembarkation Trials	4
6. 7.	Expandable Carpet on Churchill (Special Devices) ***	Ş
8. 9.	Fascine Carrier Sherman (Special Devices)	44151415
10.	Removal of Seawater from Mectrical Components	5
	SECTION D WEAPONS AND EMPLOSIVES	
R.A.	L	
11.	Disembarkation of 17-par. WTk. Gun - Trials	6 6
12. 13.	3.7" H.A.A. Mk.IIIA Mobile Mounting - Waterproofing	7
R.I	L	
15.	Laumehing the "Snake" from L.C.T	8
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19.	Clearance of Miller alds (Special Devices)	9
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23.	Trackson Swing Crone	***
24.	(appendix "O")	1
	famoual v and	-
25.	Lighting for Discharging Ships and Graft	1
	CPOD? FORTY	ì
27.	N.L. Coustay	1
25. 29.	Bailey Mobile Bridge	Ī
27. 30.	Swing Roll	1
31.	and the same of th	3
	SECTION C FOULP THE FOH SPECIAL OPERATIONS	
	NIL	
	MISCR'LLANDOUS.	
32.	Tides	1
33•	Comica Despirator - A DOSSI 16 USS 88 E LITE	1
	Savin Device	1
34•	(Appendix *A*).	

STOTICH TAN

SHIPS AND CRAFT

1. New L.S.I.(L).

14 or 15 American C.1 B Standard Merchant Ships are being converted to L.S.I.(L). Preliminary details are listed below:

- (a) Dimensions: Length, overall 417 9 Beam 60 0 0
- (c) Tonnage: Gross 7.080 tons.
- (d) <u>Draught</u>: Light ... Forward 6'3". Aft 14'9" Loaded .. " 20'0". " 23'0"
- (e) Speed: At full power leaded 1hg knots.
- (f) Endurance: 21 days.
- (g) Carrying capacity:
 - (specially strengthened).
 - (ii) Venicles Nil.
 - (iii) Personnel ... 67 officers.
 1.332 men.
 (in addition to complement).
- (h) Armament:
- 1. 4" aft.
- 1. 12-pdr. forward.
- 2. 40 mm. single Bofc s.
- 10. 20 mm. Oerlikon.

(Note: These are preliminary details. Later information may reveal small modifications in the figures quoted.)

2. U.S. Combat Personnel and Cargo Ships (APA & AKA).

Preliminary details have been received of the American fast troop and vehicle carrying ships which have been converted for use in the Far East.

- (A) A.P.A. Known as "Combat Loader".

 (Design based on standard V.C.2 U.S. Merchant Ship).
- (a) Dimonsions: Length overall 155! 00

 Beam M10 62' 00

 Depth (to main deck)... 38' 00.
 - (b) Range & speeds 10,000 miles at 17 knots approx.
 - (e) Carrying capacity;

Fage 1

(4) Armenti

1. 5" aft. 4. 40 mm. twin.

1. 10 mm. quad.

(e) Derricks:

4. 4-ton.

8. 10-ton. 1. 35-ton.

(B) A.K.A. (Cargo Ship, based on standard C2 U.S. Kerebent Ship deston)

(a) Dimensions: Lengt overall 159'0" (approx).

Beam moulded 63'0"

Depth moulded 40'0"

- (b) Range and Speed; 15,000 miles at 15 knots cruising.
- (c) Carrying Capacity:

(i) Craft 8 L.C.M.(3). 16 L.C.V.(P).

- (ii) Vehicles About 200.
- (iii) Personnel 12 officers.
 160 men
 (In addition to complement).
- (d) Armament: 1.5" aft. 4.40 mm. twin. 16.20 nm.

(Note: These are preliminary details. Later information may reveal small modifications in the figures quoted.)

SECTION B

NIL

SECTION C VEHICLES - WHEELED, TRACKED AND AMPHIBIAN

3. Amphibians.

- (Bulletin X/26 in preparation.)

A Bulletin is shortly to be issued giving all available factual data on the DUKW, Terrapin, L.V.T.1, 2, 3, L.V.T.(A) 1 & 2, Amphibious Jeep, Water Buffalo and Argosy. This will be supplemented in due course with details of trials of new models.

Terrying Artillery in Amphibians - Triels. (Bulletin Z/19 mearing completion).

Comprehensive trials have been carried out of faritying attliant equipments in the DEW, L.V.T.2 and Argony Proliferance to the photographs of these trials are exist publicated

/in ...

in C.O.H.Q. Bulletin X/19. Details of further trials using other types of amphisians will be published in due course.

The main conclusions arrived at in respect of the DURY and 1.V.T.2 are detailed below. Details of the Argosy Freighter have been omitted from this Summary as it is now understood this model is not going into production.

A. DUKY.

(a) Capaci ...

The DUK: can carry:-

- (i) Two 6-par. A/Tk. gins, or
- (ii) One Jeep plus one 6-pdr. A/To gun, or
- (1 i) Two 3.7" Howitzers, or
- (iv) One 25-pdr.

The 17-pdr. A/Tk gun is not considered an operationally practicable loai.

(b) Loadin, afloat.

rtillery equipment can be off-loaded from a ship into DUILS in the ways:-

- (1) the DUNWs slongsion all the equipments carriable can be so tisfactorily loaded by snip's derricks except the 25-pdr. gun, which shows only e' clearence on either side when teing lowered into the hold.
- (ii) with DUKWs embarked (over the remp of L.S.T. or L.C.T.) In this case loading inside I.S.T.or L.C.T. requires a great deal of space, and is axiomatically only practicable in sea conditions in which the DUKE can climb over the ram door.
 - Note: In so far as ferrying took is concerned, it is operationally impracticable to load artiliery equipments into the DUKE mailst afloat over the lowered ramp of L.S.T.(2) or L.C.T.

(c) Loading ashore.

Loading or discharging on shore can be done either by crane (including A frame fitted to another DUNE) for all equipments carriable, or by means of the NKW winch and trackway bridge ramps, for all except the 25-pdr. This method is described fully in Bulletin 1/19.

B. L.V.T.2.

(a) Capacity.

AT L.V.T.2 CAR CAFFY

(1) Two 6- or ATE BERS OF

(11) One Jeep and cho 6-par,

The L

(1(1) One 17-pdr A/TE fue, or (1v) Three).7 Howithers, or (v) One 25-pdr, gue.

(b) Leading affect.

As detailed for DUN above, with the addition that both the 17-per. and 25-per. can be off-loaded provided the despices are capable of dealing with the loads involved. (Approx. 3 tox.)

(c) Loading ashore.

Loading or discharging on shore can be satisfactorsly dealt with by crane or by DUKW fitted with A frame.

Note: The L.V.T.2, has no winch and it is NOT possible to load or unload any of the equipment without the asse of a crane or similar gear.

5. T.16 Carrier towing 6-pdr. NTk Gun - Disembarkation Triels from L.C.T.

(a) Object. The object of the trial was to check the possibility of launching a Carrier T.16 towing a 6-pdr. A/Tk gun Mk.III from an L.C.T. into 4-ft. of water plus 1.6* waves.

(b) Results:

- (i) The carrier was sealed in accordance with 4-ft, wading instructions and was ballasted to normal operational weight.
- (ii) The carrier disembarked successfully into 4-ft. plus los waves and towed the gun ashore.

(c) Conclusions:

- (i) The T.16 Carrier fitted with modified raised towing bracket and side screens can wade in 4-ft. and tow the 6-pdr. gun off L.C.T.(4) and (5).
- (ii) As this type of wading Carrier also floats at just over the 4-ft. mark, deeper wading than 4-ft. will cause loss of traction, and therefore loss of towing ability.
- (iii) The waterproofing of the Carrier was very effective.
- 6. Bridge Laying Tanks. (Included in Bulletin X/12 "Special Davices for Overcoming Beach Obstacles").
 - (a) A.V.R.E. and S.B.G. Bridge. This equipment consists of a 32-ft. small box girder bridge attached to an AVRZ to enable it to summount beach walls. After crossing the well the tank retains its fighting qualities. The dimensions of the equipment are 44° x 11° overall and the weight, including tank, is h2 tons. Results of trials indicate that it is effective in its designed operational role although it presents a high silhouette and a good target for energy artillery.

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Pile equipment tested was not in emplete firelised form, but it would appear that it is effective is its operational role and can also be landed over the beacker.

- (c) Crusader and Valentine Bridge Lawrer. These experts of non-fighting bridge laying table based on the Grusader and Valentine chassis. The soutpoints are known to be effective in their operational role and can be laided over the beaches wishout bridging the water gap provided the depth of water at the ramp of the craft does not exceed 1-ft.
- 7. Expandable Carpet on Churchill. (Included in Bulletin 2/12 Special Devident)

This consists of a hessian roll mounted on the front of a Churchill Tank. The roll is unwound on meetin, wire obstacles thus forming a carpet over which the tank can proceed without interference from the wire. The device is considered effective in a combined operational role.

8. Fascine Carrier Tank. (Included in Bulletin X/12 - "Special Devices").

This equipment consists of a tank carrying a bundle of fascines weighing 3 to 4 tons, which are dumped into an A/Tk ditch. enabling the tank to cross it. Trails have confirmed that the equipment is effective in its operational role. For rough see passages, the Fascine Carrier frame requires to be made up of heavier members than were used for these trials.

9. Wading Depths of Unwaterproofed 'B' Yearcles - Trials.
- (Bulletin X/25 in preparation).

The possibility of landing reserve vehicles rithout water-proofing has been under investigation. As a result of trials it has been concluded that unwaterproofed W.D. iB' vehicles are capable of operating for a limited period in 1'6' of water, provided the waves do not exceed 9" in height. The trials indicated that to achieve this, vehicles would have to travel in the same direction as the waves and that stranding of vehicles could largely be averted by training drivers to pick the right moment between waves, when to disembark.

10. Removal of Seawater from Electrical Components.
(Ref. M.I.S. No. 8, Part II, para. 6).

It has been pointed out that units in the field should not rely on supplies of methylated spirits and commercial ather being available from medical stores for removing seawater from electrical components.

Development of a "dewatering oil" for this purpose is proceeding. Prelimitary results are promising and details will be issued as soon as the development is finalized.

SECRICAL D.

- Our Wille (Sulletia in preparation). 11. Dioenbarkstion of 17-par.
 - (a) Object: In view of the length of the piece, resulting to muzzle fouling, and the low ground elegrance of the 17-pdr. making it a most difficult equipment to disenser's from leading craft, comprehensive trials have been carried out to determine the best method of disembarking it from L.C.T.(3), (4) and (5) on to flat beaches, using the following vehicles for towing purposes:-
 - (i) Crusader III Tank.
 - (11) Carrier h.lu half-track.
 - (iii) DUKW.
 - (b) Results and Conclusions:
 - (i) Fouling on the ramp occurs at the muszle, shield and spade.
 - (ii) Muzzle fouling can be overcome b; pulling back the piece 27" and retaining it in that position.
 - (iii) Shield fouling can be overcome either by raising the shield bodily 8s or by hinging it 8s from the bottom.
 - (iv) A metal skid attached to the underside of the space will prevent spade fouling.
 - (v) In certain cases it was found necessary to introduce a towing link between the tractor and the gun.
 - (vi) In certain cases also, disembarkation was assisted by theinterposition of the No. 27 trailer between the tractor and the gun.

Further trials are to be carried out with the 17-pdr. and the new Crusader Tower.

- 12. Ram 25-pdr. S.P. Wading Trials.
 - (a) "One off" Trial: A "one off" trial of the Ram 25-pdr. S.P. revealed that it could: -
 - (i) Disembark into 6-ft.
 - (ii) Remain in 4-ft. water, in uverage sea conditions, for up to 1 hour.
 - (iii) Manoeuvre up to a depth of 7-ft. in a very calm see, and fire up to a depth of 6 ft.

No demage to gum or ammunition occurred and th existing hardware proved satisfactory, with minor modifications.

- (b) Large Scale Trial.
 - Object: A large scale weding trials was subsequently held with the following specified requirements:
 - and later high and more about for 1 hour at Privat process of the day of the see have **(40)**

- (ii) To fire S.P. on the L.C.T. loaded to operational standard, to depermine the effects of blast on the surrounding equipments (2002)
- (iii) Time to remove hardware.

(c) Results and Conclusions of Large Scale Trisis.

(i) An L.C.T.(4) with 4 S.P. on board put to sea for firing. This was carried out satisfactorily with little material damage from blast.

(ii) Eight vehicles underwent long impersion in depths of approx. 4-ft. with 3-ft. waves, without damage to hardware. Some water entered the tops of the vehicles from spray and splash, and some of the cartridge cases got filled with water. With waves of this size, the vehicles were unsteady as gun platforms at a greater depth than 2'6".

(iii) Subsequently firing was carried out in a depth of 6-ft. without any difficulties.

(1V) The crews of two ve. icles removed hardware (except rear chute bottoms) in twelve to thirteen minutes.

13. 3.7" H.A.A. Mk. IIIA Mobile Mounting - Waterproofing trials.

- (a) Object: Trials have been carried out with this equipment, fitted with M.F.S. No. 11A to test the latest method of waterproofing.
- (b) Method: The gun was waterproofed in accordance with provisional instructions issued by M.E.13. Har Office, and with the following additions:-

Seal Marning Light with A.C. M.F.J. 10.11A. Seal all cap securing bolts with A.C.

Seal joints and bolts of Rammer Power _nits: inspection window with A.C.

Note: A.C. - Asbestos Compound.

(c) Statement:

- (i) The application of waterproofing material took 35 man hours.
- (ii) Quantities of material used were:-

S.A.C. 25 lbs. Bostik A.C ... le tins. Oiled Cotton Fabric 2'9" x 3' Rope 15' x 2" (Guard for Traversing Rack). Gresse No.2 .. 7 lbs.

- (iii) The gun was towed by A.E.C. Metedor 4 x 4 Tractor from L.C.T.(4) through 4-ft. of water plus 180 waves. (iv) The total time of impersion of the gun was 30 Minutes

 - (v) at ter leading, the city was towed for approximately the two exemined.

 (ut) to coveris were noted.
- The separation of the separati

Launching of the "Sneke" from L.C.T. (Ref. M.I.S. No. 8 Part II, para, 13 and Bullotin 1/14.)

In order to correct any misunderstanding which may have resulted from Bulletin X/14, it is pointed out that further alternative means of clearing beach minefields include: -

- (a) Hedgerow.
- (b) AVRE and Plough.
- (c) Bengalore Torpedoes.
- (d) "Petard" with air fused "Dustbins".

In addition, para. 4(b) of the Bulletin should not be read to imply that L.C.T. can always be made to beach forward - and not by the stern. Whether the craft beaches forward or aft, of course, depends on a number of factors, such as trim and beach slope.

15. ATk. Mines - Actuation by Landing Craft. (Ref. M.I.S. No. 7, Part II, para. 12).

Bulletin X/18 on this subject has now been completed and circulated.

- 16. Breaching Concrete Walls "A". (Included in Balletin X/12 -"Special Devices".)
 - (a) Ardeer Argie. The "Ardeer Aggle" is an experimental 9.5" or 10.5" smooth bore recoilless gun which shoots a "plastic shot" charge a distance of about 300 yds. At the same time. a wad is ejected backwards. The gun is designed primarily forbreaching reinforced concrete obstacles. Trials, however, indicate that in its present state of development, the weapon is not thought to be of any value in combined operations. Further development by the Wer Office has been deferred.
 - (b) The Goat and Roller: The Goat is a frame charge attached to an AVRE which can place it against a concrete wall, retract and blow a gap in the wall. The equipment has been developed in two forms:-
 - (i) The Goat II. which is mounted on rollers which are designed to detonate mines ahead of the tank over which they pass.
 - (ii) The Goot III, which is a similar apparatus, but mounted direct on the tank and not on rollers.

Owing to the poor mechanical condition of the equipment tested, no useful conclusions as to its operational officiency from landing craft could be made. From the point of when of land warfare, however, the Goat II and III have now been further developed with success.

(c) will and Peterd. This consists of a standard engineer Churchill tank mounting a 20 mm. spigot gan called a "Retard" which fires rounds known as "Plying Datables". There can be fused to detonate on impact (for breaching concrete walls) or with a time select giving an airbus. (for clearance or narrow belts of 1/7% missee). The raige is 20 to 50 whs.

Face 9

17. Breeching Concrete Walls "" - Trials.

An interim report has been issued as a result of preliminary trials of the breaching of a concrete, carta-maked see well. Apart from the AVRE and Petard referred to in para. 16(e) above, all charges were placed by hand. Purther trials here been sakeduled and a comprehensive Bulletin will be issued in due course.

Dotails of yet further trials involving the use of a mixture of H.E. and shot from verious artillery equip cate are also to be published shortly.

18. Passage of Underwater Obstacles. - (Bulletin X/21).

An interim report on the destruction of underwater obstacles has been prepared and is being circulated in Bulletin form.

- 19. Clearence of Minefields. (Included in Bulletin T/12).
 - (a) AVRE and Plough: The Plough is an attachment to an aVRE which enables it to make a furrow in front of its tracks clear of mines. The depth of furrow is controllable and the Plough chassis can be raised when not in use. The equipment is satisfactory on a sandy beach of uniform grade.
 - (b) The Scorpions The Scorpion consists of a flail mounted on a Valentine Chassis which clears mines in front of the tank by beating the ground with rotating chains. It is considered effective in its operational role.

 Note: Information received since the Bulletin was issued indicates that the equipment is being replaced by the "Crab" mounted on a Sherman chassis.
 - (c) 2° Morter Graphel ired from L.C.A. This device, which has been referred to in previous h.I.S., has been designed primarily for use on land to project a Graphel or carry out Gordtex rope from a standard infantry 2° morter to remove or cut trip wires attached to anti-personnel mines. The weapon can effectively fulfil its normal function, but its use from L.C.A. is limited owing to its comparatively small range (80 yards). Under these circumstances, it is only of use on fairly steep-to beaches.

SECTION E.

20. Small Cordite Operated Smoke Fiector.
(Ref. M.I.S. No.4, Part II, para. 17).

Further trials of this equipment have now been completed, and as a result it has been decided that there is no requirement for it in minor landing eraft, although it might have other applications.

23. Brand State All State 1. Social Marketine

Jego 10.

all aircraft having a 500-15. bomb stowage con corry this bomb. Owing to the risk of spontaneous combistion, the 500-15. Sucke Ecold is not practicable for use in tropical countrier

The overall length of the bomb body is approximately 35 5" and its maximum diameter 13.1 inc. Its terminal velocity is 1400 ft. per sec. and the maximum height for live release is 500 ft.

Combined Operations Smoke Pamphlet, Appendix *C*, is being amended accordingly.

- 22. Mooring of Navel Smoke Floats Trials. Vide Appendix "A" & "B". (Ref. M.I.S. No.4, Part IV, para, 16.)
 - (a) Object: Further triels have taken place to determine the best method of mooring a Mk.VI Navel Smoke Float in varying strengths of tidal smam with particular application for use in fast flowing rivers and estuaries in the Far East.
 - (b) Statement: The smoke float was mounted on a timber frame, shaped to "plane" on the surface of the waves. One end of the mooring wire was shackled to a ring bolt under the plane and the other to two 12 cwt, sinkers.

The equipment was moored in a tide of 5½ knots and the smoke float remained well above waves. Even when towed against the tide to produce a resultant of 8 or 9 knots, the float still remained above the surface.

(c) Conclusions: It is considered that this method is the most satisfactory mooring arrangement tried out so far and is recommended for occasions when it is known that tidel stream is likely to exceed 3 knots. The equipment, however, is awkward to handle and where a tide of less than 3 knots is expected, the method referred to in M.I.S. No.4, Appendix 'B', using Time Indicator Floats to give additional bucyancy, should prove equally satisfactory.

TRANSPORTATION & LANDING, AND BEACH EQUIPMENT

23. Trackson Swing Crane - Model C.T.9. - Vide Appendix 'C'.

Particulars of the Tr ckson Swing Crane have been received and from the pemphlets it would appear that this crane is eminently suitable for handling palletised cargo at dumps, on account of its small size, manoeuvrability and suitability for operating on any type of ground. It appears to be mounted on top of a model T-9 International Tractor and has a jib with I slew. Slewing, luffing and hoisting are all power operated. The maximum capacity of the crane is 5,000 lbs. Safe operating loads are:

18! jib 2,000 lbs. 16! * 4,000 * 12! * 5,000 *

It is understood that 1,200 of these cranes have been produced for the Pacific theatrs. It is further reported that the tractors are in ample supply in the U.S.A. and that the possibility of manufacturing the drame assembly elsewhere is worth considering. No trials have yet been easyied out in this Drived Kingdom.

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C. C. R. R. B. T.

- Vice Appendix !D"

The Telpher Span is assens for discharging sarge from a coaster on to damaged quays, etc. In this system the ship's normal times, and derrick are employed to lift a special smatch block with a ton set of cargo, to a span wire or jackstey statched between the ship's meet and a meet about 12-ft, high on shore. This wire requires a tension of under 1 ton and should have a downward slope of about 1 in 10.

The sets are hoisted on the ship's derrick and sutcastically snatch into the span wire. The derrick purchase is then sutcastically released and the sets run down the wire to the shore by gravity. The snatch blocks have be be returned separately to the ship using a light line.

A preliminary trial only of this apparatus has taken place, and a discharge rate of 18 tens per hour was obtained over a 90 ft. water gap from one hatch. Considerable damage was caused to cargo. as it struck the ground at the shore and on account of the shore mast being only 7 ft. high. It is anticipated, however, that by using a slacker span wire and a mast 12-ft. high, sets will come to rest whilst hanging in a dip of wire, so overcoming this difficulty. Trouble was also experienced in freeing set from hook, but trials to solve this problem are in hand.

25. Lighting for discharging Ships and Craft - (Bulletin in preparation).

The lighting necessary for discharging stores and vehicles in a combined operation has been investigated in respect of large M.T. and Store Ships, coasters and craft, as well as beaches and dumps. Conclusions and recommendations are as follows:

- (a) Large M.T. & Store Ships: A system of white and orange lights in all spaces, and controlled from a central point has been found most suitable. Under blacked-out conditions, the orange lights only are used.
- (b) Coasters: For coasters with a generator, normal lighting in the holds has been found satisfactory provided a resistance is fitted which can be switched in during black-out conditions. For those without a generator, large long life battery operated hand lamps with 4 watt bulbs or smaller are recommended.
- (c) <u>Craft</u>: For loading craft alongside ships, the most satisfactory system consists of a series of portable lamps worked off the ship's lighting. Each lamp hangs over the side and projects a white light into the craft below. When the craft is loaded and gets under way, a switch is operated which cuts off the downward beam and projects an orange light horizontally. The latter indicates to other craft that a berth is vacant at that particular hold. The equipment has not yet gone into production as at present it is considered to be rather a luxury, in view of the fact that it is still necessary for the craft to have their own lighting system.

It has been found impracticable to make use of the wiring systems of L.C.T. holds for various technical reasons, and accordingly L.C.T. as well as L.C.M. and L.B.V. will be provided with dry battery operated hand lamps which have a life of 50 hours. These lamps are identical with the lamps used for beach marking signs except for a blue filter.

- (d) amphibiance for Diffic. A small lamps placed near the corners of the hold under the comings, and worked by the graft's own lighting, have been found satisfactory.
- (e) Beaches and Damps. Lighting for beaches and damps has not been finalised and it is not certain to what extent a requirement exists. Lyon floodlights have been found satisfactory on beaches and dock floodlights for compact due ps. For scattered k.R.P. lighting, Saturory 'G' has been found preferable.

26. Crat Ferry.

Preliminary trials are to take place shortly of the Grab Ferry, which is designed to transfer vehicles from L.C.Ts. to shallow water on flat beaches. It consists of a circu, steel postcom 90 ft. in diameter operating along a cable stratching from the shore to ground moorings laid out to sea. Mounted on the postcom is a winch to haul it to and fro along the cable, like a floating bridge.

The advantage of this ferry lies in:-

- (a) Its vory shallow drau_ht (sstimated at 1-ft. loaded with 8 vehicles), and
- (b) Owing to its shape and small freeboard remped landing craft can always approach it stem to tide for the purpose of discharging their vehicles over the ramp.

27. N.L. Causeway.

Trials of a causeway constructed of a large number of 2 x 30 N.L. Pontoons 176 ft. long have been initiated. It is intended to tow the pontoons into position and sink them to form a 5 ft. high causeway stretching from High Water mark to below Lot Water mark.

Various methods of transferring vehicles from L.C.T. will be tried out including the use of intermediate floating pontoons to effect the junction between the L.C.T. and the causeway.

26. Mobile Bailey brid . 3.

A class 18 Bailey Bridge 190-ft. long, supported by a tank one end and a tracked unit at the other, has been constructed to ridge the water gap. On preliminary trials the equipment was found capable of annouvring satisfactorily on a reasonable beach surface and was also able to wade to L.C.T. depth. Further trials including the use of two such equipments end to end are to be carried out.

29. Lending Motor Cycles.

Prolonged investigation of the problem of landing motor:

cycles from the same eraft as other vehicles of the same unit have

so far shown that the only practicable methods on a tidal beach are

either.

- (a) carrying ashore in or on unit vehicles, or
- (b) discharging into suphibisms elements Light.

In order

Page 13.

In order to expedite landing in later follow-up stages, the question of packing motor cycles in crates, so that more than one may be lifted out of a ship in one set, is being investigated. However, it does not appear likely that much is to be gained where motor cycles are to be taken ashore in DUKWs.

30. Swiss Roll.

1

- (a) Heavy Duty: The problem of towing this device has proved insuporable and development of the project has been abandoned. A number of suggestions for alternative uses have been made, but it does not appear likely that there will be a requirement.
- (b) <u>Light Duty</u>: The problems of mooring and tensioning this device have been satisfactorily solved, but it is considered too fragile to be of value in landing k.T. Its use for landing personnel from L.C.I. dryshod is being investigated.

31. L.S.T.(2) - Discharge of Stores by DUKWs - Trials - (Bulletin 1/23 in preparation).

Trials have been carried out to assess the advantages to be gained by carrying stores on the upper deck of L.S.T.(2) as against the tank deck, and to determine the best method and rate of discharge by means of amphibians.

Conclusions are summarised as follows:

- (a) The advantages to be gained by this method of stowage appear so great that it is recommended that it be adopted whenever theoceasion arises.
- (b) Loading into two DUKWs by means of chutes from the after hatch, and three DUKWs (by roller runways) from elevator. a peak discharge rate of 75 tons per hour can be achieved.

SECTION H MISCELLANEOUS

32. Tides.

In connection with the landing of vehicles, it is frequently necessary to know the maximum rate of rise and fall of tide. A convenient rough and ready rule is that the maximum rate of rise and fall in feet per hour is one quarter of the tidal range. For example, with a tidal range of 28-ft., the maximum rate of rise and fall would be about 7 ft. per hour. This rule is, of course, only approximate;

33. Service Respirator - A possible use as a Life Saving Device.

(Ref. M.I.S. No.8, Part II, para. 23 and Bulletin X/II.)

Attention of those contemplating using the respirator as detailed in Bulletin X/11 is drawn to the fact that such usage must be considered exceptional. No extra issues can be contemplated to replace respirators demaged by inconsiderate immersion in water. If the coession does arise for employing this device, the respirator must be properly dried, reconstituted and tested before re-issue.

/Sheek

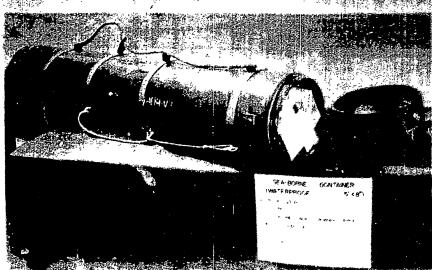
Ref. M.I.S. No.B, March, 1943 (Old Series) Section I. pere.1).

- (a) Description: The Seaborne Container is sylindrical in shape, made from in laminated cardboard, h. 8. long, 9km in diameter and having a detachable top. It forms a component part of a 3" morter raft, which is used by certain Combined Operations units and quantities are held in C.G. stores.
- (b) Capabilities: Tests have proved the container to be quite watertight provided the top is securely held in position and a weight of 50 lbs. can be floated in it (bringing its total weight to 65 lbs. 112 oz.). The material from which it is constructed is not strong and would be easily holed if dropped on ragged surfaces.
- (c) Possible Uses: It has been suggested that this container could be used for hauling some or all of the following small stores ashore:-
 - (i) Small demolition stores.
 - (ii) Reserve of arms and ammunition.
 - (iii) Medical stores.
 - (iv) Small supplementary rations.

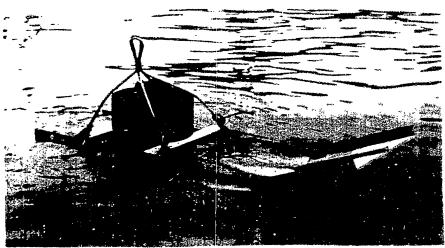
(d) Recommendations:

- (i) It is felt that the initial assault troops could not afford to be encumbered with additional gear which would slow them up both while wading ashore and crossing the beach, and that this method of handling stores would be most uneconomical, and it is therefore sonsidered that no requirement exists for this container in normal assault operations, other than as a possible method for landing urgently needed medical stores with Unit Medical Officers.
- (ii) In the case of small scale raids, however, where the normal methods of landing stores, reserve somunition, etc., will probably not be available, it is considered that there is a requirement for this container.

APPENDIX, A.

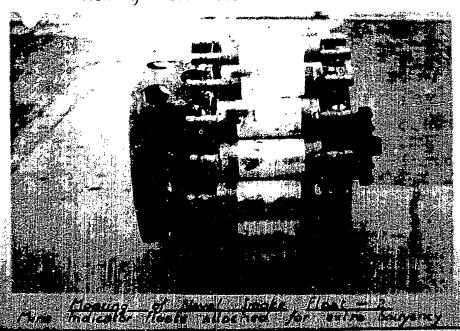


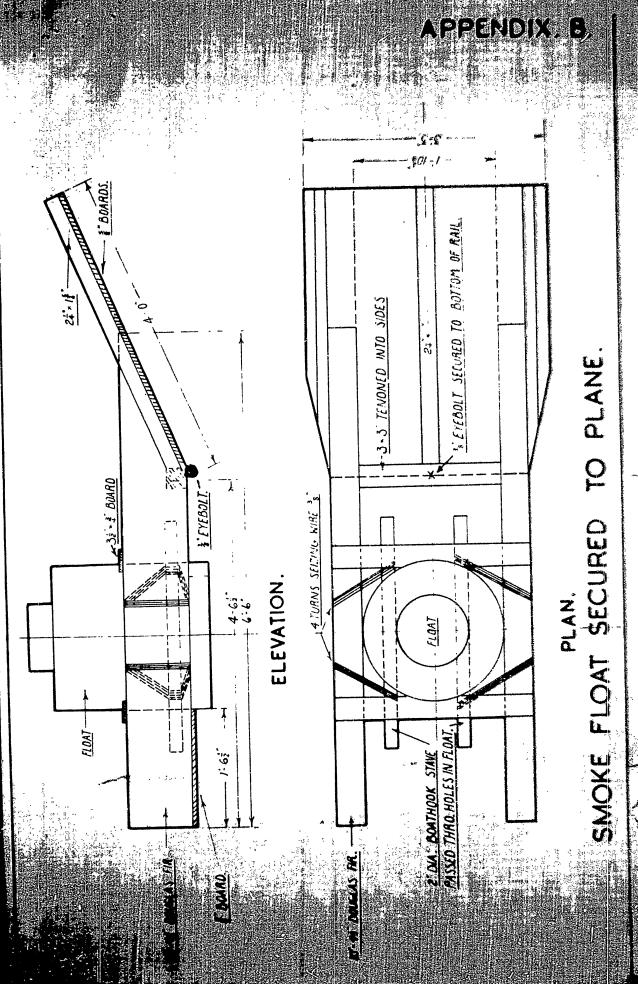
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- (a) Toputy First Sea Lord.
- (b) AGES.(W)
 (c) TUCRM.
- (d' L. of P.
- (c) ITSD. (f) E. in C.
- (g) DIC.
- (h) DCR.
- (J) LLMD.
- (k) Assistant Controller (R & D)
- (m) DCCD.
- (n) ECOM
- (o) DCOP
- (p) Director of Air Warfare & Flying Training, Naval Staff.
- (q) L. of N.
- (r) DNO Admiralty.
- (s) DNO Admiralty, Both.
- (t) DTM.

Section 2. WAR OFFICE.

- (a) DCIGS.
- .(b) ACIGS.(W)
- (c) ACIGS. (Ops)
- (d) DMO. (MOI(SP)) through A/Q (COHQ).
- (e) TWO. (MO3.)

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- (x) British Secretariat, Combined Comministantian Scape,

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- (DO) CO. HMS. ST. BARBARA
- (af) Naval Staff College (ag) RM. Military School
- OC. RM. Towyn, Wales.

Military

- (aj) Military Staff College, (Intermediate) Comberley,
- (ak) C Planning School.
- (am) Commandant OAC
- (an) CC. Airborne Forces Development Centre
- (ao) US. Assault Training Centre, Appledore (for 1, 1, 101,

Norton)

(ap) Commendant, RASC Training Establishment, Butter Barracks, Aldershot.

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- (v) Chief Instructor, Kilbride Wing (v) CRASC., CTC. TCVARE.

(x) No. 105 (CO) Wing.

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- (y) CO. HMS. DORLIN.
- (z) Chief Military Instructor CTC_DORLIN.

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Section 14. Internal

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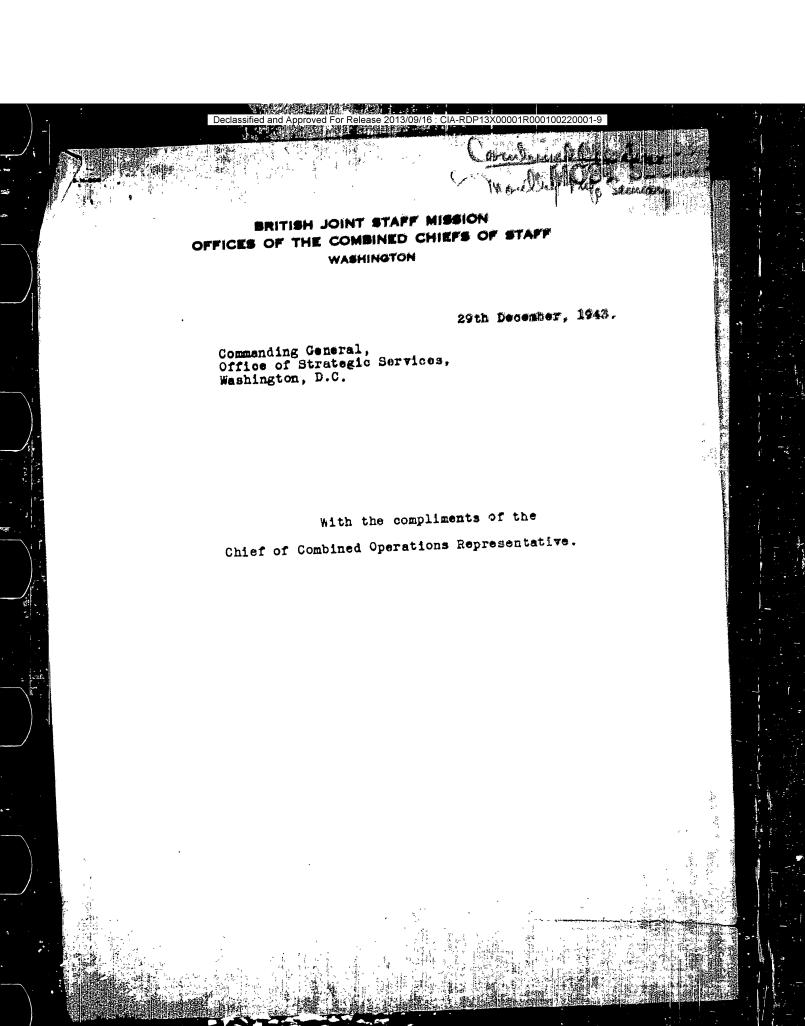
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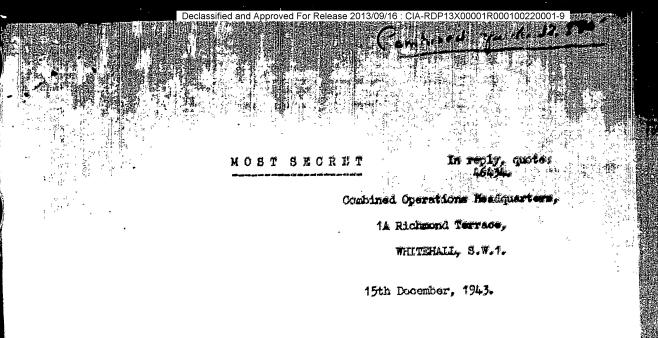
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 Inclosed is a copy of C.O.N.G. Houtely Summery No. 7 dated 15 December 1943 received from the Chief of Confident Operations Representative, British Joint Staff Mission, For the A. C. of B., G-21

> R. H. OMELTHEAD, Jr., Hair, Air Corps Communith Section Persign Maison Strand

Enslowers:
Oy COHQ Information Summary
Receipt for return to BJSM
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C.O.H.Q.

MONTHLY INFORMATION SUMMARY

No.7 of the C.O.H.O. Monthly Information Summary is forwarded herewith. Much of it is MOST SECRET, and special care should be taken to ensure that no unauthorised person has access to it.

- 2. Most of the information has been issued more fully in the C.O.H.C. Fulletins to which reference is made. These have been distributed according to their contents, but any recipient of this Surmary who requires a Fulletin which has not been sent to him should apply to C.O.H.C., stating the Series letter, the number, and the title of the Fulletin.
- 3. Part II of the Surmary is confined to reports on Trials and Experiments. Dulletins issued under this heading are necessarily restricted in distribution.

Chief of Staff for CHIEF OF COMBINED OPERATIONS.

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COMBINED OPERATIONS HEADQUARTERS MONTHLY INFORMATION SUMLEY No. 7

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(FOR INFORMATION CONCERNING TRIALS AND EXPERIMENTS) SEE PART II OF THIS SUBJECT.)

SECTION A.

MAJOR POLICY DECISIONS APPRICATE CONTROL OF OF ORGANISATION IN C.O. COMMAND.

Assault Warfare Committee - November.

The following items were discussed during November and recommendations made to the Executive :-

- (a) New Craft for the Far East Draft Staff Requirements LCT8, LCP(U), LCNA, and LCW.
- (b) "Aquatic Hook" Comments on DCO ME's paper on seaborne landings behind the enemy's lines.
- (c) Preliminary consideration of the Role of Amphibians in Assault Operations in the Far East.
- (d) Draft Staff Requirements for IST3.
- (e) 4" Naval Mortar on Recoil Mounting for craft.
- (f) Trials of LCC(T).
- (g) Provision of wireless equipment and vehicles for special communication parties in the assault.

Re-organisation of COHQ.

2. An outline of the re-organisation of COMP, on a functional basis will be given in the next issue of this Summary.

SECTION D.

INFORGATION COVERING CONDINED OPERATIONS TECHNIQUE AND EQUIPMENT

Use of RHI Equipment in Landing Craft (Bullotin T/i).

Officers using RHI must be able to (a) tune their sets; (b) find whether the beacon is ahead or astern; (c) home on a minimum reading of the needlo; (d) home on a leading bearing. This Fulletin tells them how to do all these things.

(CT/1106/43).

Radio, Agdic & other Aids to Navigation in Combined Operations (Dulletin T/3)

2. Describes the devices available for fixing ships, etc., from the friendly and the hostile shores, for locating and directing craft from other craft or ships, and the athers of locating buoys and beacons, including FH 830.

(CT/*165/43).

Signals Information (Eulletins V/1 and V/2).

3. V/1 describes the new Wireless Handcart No.1 Mk IV, the new Reception Station Philos DF 413 and the latest form of Lamp for indicating location of Deach Signal Stations, New War Establishments for HQ Ship Signal Sections, and illitary Communication Diagrams for Amphibious Operations.

(CR/20, 148/43).

4. V/2 - Submary of Decisions Taken in Rejorts on Communications and Radar luring amphibious operations in the Mediterranean from July to September, 1943, with extracts from MAC report.

(AOCO/2013/2/Si s.).

Necessity for a Post-Assault Hydrographic Survey (Dulletin T/1).

5. Experience in recent operations has shown the need for an immediate hydrographic survey of the assault beaches and approaches directly the first flight have landed. It is recommended that a Hydrographic Craft (a canopied LCP(L) fitted with Echo-Sounding and Taut Wire is most satisfactory) and a DUKW with a trained survey party should be allocated for the use of the PIFF as soon as the Naval Beach Commando has landed.

(CR/11, 300/43).

6. This cancels para. 31 of Part I, M.I.S. No.6.

Present Policy in regard to responsibility of CO Personnel for the handling of Balloons during Combined Operations in Home Waters

7. WCXF has approved the following policy in regard to the responsibility of 00 personnel for the handling of balloons during

Combined Sperations/co

- (a) Kite Balloons may be carried by LOT and are the responsibility of the crows of those craft and are used for their protection and possibly for the protection of the anshorages off the enough coast.
- (b) RN Beach Commandos have no responsibility in regard to Balloons on the beaches, and, if a Balloon barrage is used on beaches it will not be a Naval responsibility.
- (c) If Balloons are required by IST they will be supplied inflated and worked in a manner similar to that in merchant ships.
- 8. Training of Compersonnel in the handling of Balloons is, therefore, being confined to those marming Major Landing Craft.

 (See Section G.)

Concentration of Observed Fire - controlled by Mir C.P.

9. Details of method of colling for Regimental and Divisional concentrations, pre-arranged or impromptu, controlled by Air 3.P. is CRA's representatives. (CT/4264/43).

Air attack of Airfields (Bulletin R/2).

- 10. This paper has been programed by permission of the Air Ministry, from Air Ministry Tastical Paper C.S. 11374 of September, 1943, which bears the same title.
- 11. The facts contained are in who from the experiences suffered by Allied and axis Airfiel s in all the theatres of war. Contain successful methods of attack are authined and the nature of the whole problem put on paper. General conclusions are lrawn which, it is thought, will be of use to Planners of all Services.
- 12. The original paper, which is very lon, is well worth the study of those with the time for more extensive reading.

(CR/12,244/43).

Airfield Construction in Sicily and Southern Italy (Dulletin R/1).

13. Notes on airfield construction in Sicily and Southern Italy prepared from a report made by a RCE officer of Canadian Military Headquarters. A paragraph on oil pipe-lines and notes on airfield construction at Salerno are included. (XR/2548/43).

Contraction of Canting Strage on Deschos

14 See Soction P.

Composition of anti-tank Regiments

- 15. (a) Reference Monthly Information Summary No. 3 July 1943 Part II Military para. 21, the following is published as an indication of the trend of opinion:
- (b) Various changes in the resent organisation have been urged by Commanders abroad, and it has been agreed that the following organisation woul meet the requirements of users and at the same time secure information organisations in Europe :-
 - (1) Infantry Division.

Each bottomy to consist of two thooks 17 or wheelod and one trook 6 or whooled.

(H) imour l Division.

Two letteries such of three trans 17 or whoselet on two interies such of three, trans 3" 1(.

(c) This or tanks it is less than the constitution of the mill then be put forward for fine to resent.

(R/11.-16/43).

Explanation of the use of LDT count in resent to literronean Operations

- 16. With reference to the tend lained the term near the political on the disuse of Lender Pt in The including the refer any Magal, COM, 1.1.3. It.5, and I, the fallowing refers by Magal, Alliel Force For quarters, forth africance diverge and explanation of the way of LT and LST in recent sports as in the Mediterranean :-
- 17. "The assumption that lending ships in length were used as a substitute for MT ship inglish is incorrect. In the perations concerned all capture' parts were continuously fill the expecity in the lischarge of TT in later a ships on them was always a back-lost the lischarge of TT in later a ships on them was always a back-lost of these ships awaiting acceptance at the lorts. Part capacity of these ships awaiting acceptance at the lorts. Part capacity was limited not only by the availability of discharging heaths (a limitation which is ht have been evercome to some extent by the use of lighters), but also by light tions in the availability of lischarging personnel.
 - 18. "Thus, the use of ISTs was lictatelly the facts that :-
 - (a) They did not need deep water unlording facilities.
 - (b) Their speed of loading and discharging was for greater than that of MT ships.
 - (c) They did not need trained stevedere rersonnel for their leading or discharge.

"They thus provided a large additional lift towards a buildup which could not have been obtained by the use of kT or stores" ships. 19. "The position as regards IC" was different. Those were largely used after the initial assault as solf proposited lighters in captured ports. This is admittedly in unconnected use of these landing craft and the requirement could have been not by the provision of tugs and lighters. The latter, however, were not available." (CR/10,034/43.)

SECTION C.

HEPORTS ON, AND LESSONS LEARNED FROM COMBINED OPTRATIONS AND EXERCISES.

Advance Notes on the Fleet .. ir Arm Operation at Salerno (Bulletin Y/14)

This has been distributed to all reci; lents of this (CR/11,113/43). Summary.

Final Report on Guadalcanal (Dullotin 7/13)

2. This is a very trief it est of the fine toport by the 1st U.S. Marine Divisional terraler on the Austructual Operation in the summer of 1942. It makes is istribute the litre-digionts of this Su mary.

The summer of unitarity that is the report will be subsished in subsequent ulletin. (CF/11,577/43).

The Landing Operations on ATTS, abution Island, 15 - 15 (uil stin 7/10).

3. Extracts from related by Dominder, T. no. ort., To knotfin Float. ni ... 1.30. Heyers, of special interest to Novy and Planners of operations in jungle and tunks. territory. (01/11,402/43).

The Wake Island & oration

- L. COOK, Westir ton, for arts the following report by Set.

 ... wing, M. . (wile, Positic Fleet) in a "critique" or inquest in
 the Take Islanding the attention by in an Communical Hell. Highins, 1.4. :-
- 5. "The first of the various rate and units, lawn to and including estr you livish and commonlers and acute emistr on taking, eve seert of resses in the foretim from their forticular points of view, full ir one cin llowe, for criticis...
 - " . tuton'ing | into rul root a on were :-
 - (a) Exercis secrecy rivint. cromed consect between commanders on subordinates buf re sailing, which was ruflected in the number of signals which had to be made subsequently.
 - (b) To little time was allowed for the preparation of operation orders once the expedition had be n authorised by the Commander-in-Chief.
 - (c) V/S signalling was slow and unreliable.
 - (d) The danger of the excessive use of TTS.
 - (e) The unreliability of VHF communication.

(a)/...

- (f) The difficulty of aircraft recognition from sea and six.
- (g) The doubtful value of incendiary bombs in attacks on Japanese-held islands and the good results to be expected from the new fragmentation cluster bomb.
- (h) The value of fighters for machine-gamming purposes.
- (j) The necessity for identification marks on certier flight decks, to be visible from the air whether aircraft are ranged forward or aft. (Six carriers were working in conjunction during the operation).
- (k) The possibility of using CHEALNGC class carriers in connection with similar operations in the fiture. (These ships are converted fast fluot tankers which have retained large fuel capacities and have equipment for fuelling at sea. They carry sufficient aircraft for their own protection and could also provide a few spares for the first-line carriers.
- (m) The need for an efficient rescue corvice for recovarian crows of hiromath formulato for an the sea. Substitutes are filinited value for this particle and the arrange finite crows outforthis. In requests."

(Information Dilletin No. I.D.35, 46/Cot/43 - C.R./12, 034/43.)

Naval Experiences Gained from Exercise 17.11 (Pulletin No. Y/14).

7. This consists of extracts from a report by the them Commodore Commanding Force J. He says: "From the naval point of view the launching of this exercise was a big or undertaking than the rail on Diegre. The fact that it could be undertaken with a smaller staff than was used for this portation, and within a short time of other large-scale commisses, reveals satisfactory progress in the general organisation of the Force, which has now reached a state which would enable a prolonged major operation, involving dealings with a succession of Military Commanders, to be undertaken with confidence."

(CT/1144/43).

SECTION D.

INFORMATION FIGH: AMEGAD

This Section will usually cover all information from abroad other than British sources. It will not include secorts on Operations and Exercises; these will be covered in Section 7. When the information has been issued in Bulletin form, this Section will give a brief indication of the contents of the Bulletin.

- 2. Alter title of Section D in Appendix A to COMO letter 46434 dated 15th October, 1943, accordingly.
- 3. This month, there is nothing for jubilisation under this heading other than material covered in Sections C and F.

SECTION E.

COLUMN CONFICTIONS CONFICTIONS : CO.MITTEES

See Secti n A.

SKOTTON I

COMPTHED CORRASTORS FURLICATIONS OTHER: THESE TRUINING PARTITIONS

Revision of Bulletin Series

To conform with the reorganisation of COMD on a functional basis the Dulletin Series will in future be as follows:

•	Reference letter
EXERCISES, Reports on	 Z
OPERATIONS, Reports on	Y
TRIJIS AND EXPORDEDITS	X
INFERENTION FROM LIRCAD (FROM SOURCES OTHER THAN TRITISH) (excluding Operations and Exercises which are a wored in Series Y and	7 Ž.)
SITALIS	v
ORGANISMICH	τ
T.CTICS, DUINTINT AND TECHNIQUE (to include PLANS MG TECHNIQUE)	Ţ

- 2. This revision no consitates the following clarges in the reference letters of certain of the existing full time:
 - (a) To be remundered:

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s/9	to	T.A.
8/10-11	to	U/3
Y/5	to	Z/1
Y/ 9'	to	Z/2 ·
1/10	-	
7/14	s/www	we was a second
v/16	to	24

(b) To be deleted from the Dulletin Series:
S/1, S/2, S/6, S/7, S/8, S/10, S/12 and S/13.

Now Bulleting

New Bulloting

3. The bulletins published during the month covered by this report are summarised in the preceding Sections to which the information contained in them relates. In index to them follows this paragraph. The numbers and titles of previous bulletins will be found in Summary No. 6 Part I, pages 18-20.

Series Y/: Reports on Organions & Exercises

- Y/13 Extract from 1st Marine Divisional Commender's Final Report on the Guadalcanal Operations.
- Y/14 Advance Notes on the Fleet Air Arm Operation at Salarno.
- Y/15 Cancelled.
- Y/16 Naval Experiences Cained from Exercise PIRATE
- Y/17 A fuller report on the Guadeleanal Operation (see Y/13 above) in pre-aration.
- Y/18 The Landing Operations on ATTU, Alcutian Islands, 10-18 May, 1943.

5. Series V/: Signals

- V/1 Wireless Handcarts, Reception Station Philos MP 413, Signal Office Lamps, Waterproofing of Signal Equipment, HO Ships Signal Sections & Military Communications Diagrams for Amphibious Operations.
- V/2 Summery of Decisions Taken on Rejorts on Communications and Rader during amphibious operations in the Mediterranean from July to Sept. 1943, with extracts from MAC rejort.

6. Series T/: Tactics, Equipment & Technique

- T/1(a) Use of RHI Equipment in Landing Craft
 - (b) Nocessity for a Post-Assault Hydrographic Survey
 - (c) LA Defences of Ports through a Smoke Screen (acc Section G, para 2 below)

- T/2 See para. 2 (a) of this Section.
- T/3 Radio, Asdic and other Aids to Nevigation in Combined Operations.
- T/ See para 2 (a) of this Section
- 2/5 800 7 (balow).
- T/6 See pare 2(a) of this Section

See Section

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See Section

B (above)

Section B (above) Sories S/: Technique & Eduipment Army

S/14 Concentration of Otserved Firs - Section B controlled by Air O.P. Section B Ro-number this as fulletin T/6 (above)

8. Series R/: Technique and Equipment, Air.

R/1 Airfield Construction in Sicily and Southern Italy. See

R/2 Air L ack of Airfields. (above)

9. Series X/: riels & Experiments

X/6 Filling Craters on Beaches with See Part II

Reports on Operation HUSKY

10. Reference COHC Bulletin Y/6, the following is published in amplification of para. 6(d):-

FOOs must be controlled by senior artillery Officer, but the SBLO must be kept in the picture. This can be done by sending the second in correct of the troop, the Intelligence Officer Bombardment.

Constructi n of Landing Strips on Beaches ("Goldrush" Project)

- 11. A purhlet with photographs describing test debarking of two policert from LST has been issued by the US Navy Dept at which the Pills have been made of these experiments and will swrtten which have been made of these experiments and will swrtten which. Requests for copies of the pamphlet should be the control of the control
 - (a) Vo. 15 15r Op-30B-IP(SC)ND174 Serial 1238330 of Set 1 15 17 1942.
 - (b) GinGFac Secret ltr Pac-18-act ND1 Serial 0226W of October 21, 1942.
 - (e) CommimphForLant Secret·ltr FE25/A16-1 (00226) of October 24, 1942.
- LCM(3) Towing Arrangements.

 (Ref. NOIC Appledore's 158/2 of the 9th November in CR.11883/43 of 9/11/43.)
- 12. With reference to Monthly Information Summary No. 5, paras 29 36 dealing with the towing spens on LCM, it should be noted that these remarks apply only to craft not fitted as ordered by ARO 2989/43.

Post-Assault Hydrographic Survey

13. Para 31 of Part I, M.I.S. No. 6 is cancelled. See para 5.

Self-Heating Soup: Correction to M.I.S. No.4

14. The statement, contained in M.I.S. No.4 (August 1943)
Part II, Section B, para 11 (vi) (d), last sentence, that the War
Office could not supply self-heating soup for use in Operation
HUSKY is incorrect, and should be deleted. The only request for
self-heating soup was in fact put by the War Office, although this
domand by AFHO was made too late for the soup to arrive in time
for the Operations in Sicily.

C.O. Temporary Memoranda

15. The following were issued between 17th November and 15th December :-

No.80 Monthly Training and Progress Reports no longer required.

No.81 Urgent need to recommend seamen as AA3 candidates.

Graph of Landing on Different Slopes of Beach

16. With reference to the above in M.I.S. No.5, for September 1943, Part I - Noval, Appendix B, it is emphasised that the inta which can be obtained is limited. It is pointed out that this graph was based on craft of certain draught brought about by standard load. Any alterations of loads, and, in consequence, of draughts, would have a very great effect on the depth of water at the ramp. For these reasons the graph should only be looked upon as a guide for certain standard conditions.

(XR/3027/43.)

Loading Limits of LCT in the Mediterranean

17. With reference to M.I.S. No.5, Part I, paras. 14 to 18; it is pointed out that restrictions imposed on the loading of LCT by the Commander-in-Chief, Mediterranean are only in force in his Command, and are not being imposed in other theatres.

(XR/1960/43.)

SECTION G.

COLDINED TILINING

Amendments to Training Pamphlots

Responsibility for Handling Balloons. - In C.O., Pamphlet No.17 - "R.N. DEACH COMMINDOS", paragraph 17 is cancelled by the decision recorded in Section B, paragraph 7 (above) of this Summary.

AA Defence of lorts through a Smoke Screen

- 2. The following paragraph should be added to Section VI of Combined Operations Pany hlet No.5 SMOKE -
 - "5. When a harbour, open anchorage or beach maintenance area is being protected from air attack by means of an area smoke screen, it is advisable that his fire should be restricted to those guns which have flashless charges and are not firing tracer, otherwise the effect of the screen will be largely lest."

(CR/10,556/43).

ibt 65

and beached correctly with great determination and gallactry. She was under centinuous and heavy shall fire during the approach, skillfully avoiding damage by signageing, but as the range duceased, this become ineffective and she charged home straight for her beach. She received much damage from shell fire. He bursts, and machinement fire, and a few vehicles were set on fire, but she successfully discharged her carge, after opening her damaged doors with a buildoser, and extinguished the fires.

Suitability of Position of Landing

12. In planning this landing, insufficient consideration had been given to the effect of the high ground overlooking the beaches and approaches. It had been anticipated that the landing would be well behind the enemy's lines, and so meet at first with only limited opposition, and that by 2 hrs. after daylight the LST would have discharged and only the 2 store-earrying LCT be left on the beaches. As it turned out, the van of the German withdrawal tasks have been passing when the landing occurred and this accounts for the large number of gams and machine guns brought to bear.

Information of Initial Progress

13. HDMLs which led the assault in "BAYTOWN" had to be withdrawn early for other duties. In consequence, little information was obtained regarding initial progress. It is considered better that they should remain till the situation on shore is clear, because they are "in the picture" from the start and have reliable communications.

Porsonnel

- 14. From the outset of the operation, improvement in semanship and the general air of confidence of all personnel was most noticeable. In almost every instance, craft formed up and manocurred well and the experience of provious operations had been of the utmost value.
- 15. The embarkation of the troops in the dark was carried out smoothly and expeditiously. This was mainly due to the fact that each craft carried 2 military guides who contacted their respective units in the assembly area and led them to their craft on the beaches. Each craft was clearly identified by her illuminated sorial number.

(Rof: CR 12,722B/43 4462/Med/00361/R2)

- by a SNOL in ICI (L) fitted as a Headquarters Ship. Many hundreds of tons of stores were lifted and many thousands of troops were taken off from dusty roads and landed afresh and rested many miles further up the coast ready to keep the pressure up on the retreating enemy.
 - 6. There can be no doubt that the rate of the 8th Army's advance could not have been maintained unless full use had been made of landing craft. There is, however, still the need for a careful study of this form of mutual aid. The Naval Force Commander must be kept in close touch with the Army'. Commander's plan and requirements as long as the military forces remain in the vicinity of the coast.

ICA and ICM Coastal Passago

7. In "DAYTOWN" the ICA and ICM travelled 70 miles under their own power from their base to the assault beaches, and then continued to run satisfactorily for many days. These craft are not normally expected to cover such long distances, and these results were only obtained by the intensive supervision and maintenance of the repair staffs. There is no question, however, that when properly looked after, they are more reliable than had been previously realised.

Towing LCA

8. The ICA were towed 50 miles for Operation "FFRDY". They had been specially fitted for towing, by means of a strop round the boat, and experience had shown that ICI (L) can each tow two empty ICA at up to 10 knots in reasonably good weather, though in a choppy sea towing is not entirely satisfactory and ICA may get strained. In this Operation there was some delay in slipping the tow and manning the ICA from the ICI (L) in the lark, owing to inexperience of some of the crews. With practice there are no difficulties.

Beach Finding

9. In future operations it is essential to decide at the planning stage whother it is necessary to land exactly at the beach decided on, in which case quite a considerable delay in finding the beach may occur, or whether it is better to land at the agreed H-hour, and accept any inaccuracy in position, which in this operation would have been less than one mile. On this occasion, when nearly all the coast provided excellent beaches, it is considered that the latter would have been the better solution, and would have been acceptable to the Army. This is an important point, especially in waters such as these where even on clear nights nothing can be distinguished against the high black background of the hills which rise from the coast.

Support Craft Must Keep Moving

10. When LCG 12 was hit, receiving structural damage which necessitated her being towed back to Messina and having all her officers killed or wounded, most of them from a HE shell which burst just over the bridge, she was almost stopped, engaging a battery. It is of vital the bridge, she was almost stopped, engaging a battery. It is of vital importance that support craft should keep moving. The enemy's guns importance that support craft should keep moving. The enemy's guns importance that support craft should keep moving. The enemy's guns importance that support craft should keep moving. The enemy's guns importance that support craft should keep moving.

/future operations where Army and Navy teams are used together, the Army teams should have no other commitments which would be likely to interfere with the operation in hand, as occurred in this instance, when the Royal Engineers landed with all the explosives, compelling the Boom Clearance Party to cease work. If the Royal Engineers had been able to remain with the party it could have continued blasting the channels probably for two days or so long as the explosive lasted.

Observations on Personnel

8. Considering the very limited time the coxewains and crews had to learn this drill, they showed great ability in headling their craft, and the crews were extremely helpful in assisting to handle the charges, which weighed some 550 lb each. The Navy and Army teams worked together in a true combined operational spirit, the Royal Engineers showing great aptitude in boat work.

(Ref: CR 11,878/43).

PART IV

THE ESTABLISHMENT OF THE 8th ARMY IN THE TOE OF ITALY AND ITS SUBSEQUENT ADVANCE NORTHWARDS.

(EXTRACTS from VARIOUS REPORTS on OFERATIONS "BAYTOWN", "HOOKER" and "FERDY" made to Play Officer-in-Charge, Sicily)

In Operation "BAYTOWN" a ferry control organisation was set up on the Theresa beaches, where IST and LCT hards had been prepared. All craft raturning from their beaches reported to the signal station in the centre of the area, and were detailed for the particular hard at which they were required. By this means a steady stream of traffic in the exact order of priority was maintained. During the first 2 days, some 3,500 vehicles were handled in addition to the 1,800 landed in the first lift.

Performance of LCM

- 2. As nearly all IST were withdrawn on D + 2 and only four to five ICT could be made available for this forry, the great burden of the follow up was carried by ICM. These craft put up a truly remarkable performance, many of them covering as much as 100 miles per day for weeks on end, from dawn until pipe-down at 2200.
- 3. The fact that a sorviceability of nearly 70% was maintained over such a long period is a source of great pride to the repair and maintenance staffs, who worked long hours under difficult conditions.
- 4. A ICM (3) will carry a maximum of 13 mules and a ICT (3) will take 80.

ICL (L) and ICT in Support of the Army

Small detachments of the Desch Commendes were attached to

/by a BHOL

P/RT III

EXTRACTS from REPORT on OPERATIONS CARRED OUT IN THE EQUI-CLEARANCE PARTY and ROYAL ENGINEERS DIRICHS TO A SAUGE LANDING on "ROCER" REACH, SIGILL, 10th AMY 1943

The most suitable place for a channel having been decided, two transit poles were placed on the beach to indicate the line of the proposed channel. The first LCP (R) then came into the beach, turned round and headed out to see on the line of the marks, paying out its charge as it went. This charge was then fired, and the second boat followed on where the first boat loft off. This point was deternined by the disturbed water. The third and last boats dropped their charges slightly to the left of the charges made by the first and second boats with a view to widening the channel. Rough soundings were then made with poles and it was found that a 200 feet long channel approximately 40 feet wide and about 2 feet 6 inches deep in the send had been made. As this depth was not sufficient, the above operations were repeated on the same stretch of beach, and this resulted in the channel being deepened to the required 5 feet. The same procedure was then repeated to extend the channel senword, and, with the exception of the first two charges, it was found unnecessary to fire twice over the same stretch to get the required depth owing to the water itself getting deeper. Due to weather and the fact that the crews had but five days' training, the operations took 5 hours. Under very favourable conditions, it is considered, the work would have been done in 1½ hours.

Details of Charge

- 2. Five lines 3 feet 6 inches apart by 100 feet long of 2 inch Rubberised hose filled 1 lb/ft explosive 808. Hose strengthened by single-strand wire running the whole length of hose and bound every 6 inches by short length of the same type of wire.
- 3. The ends of the hoses were connected by wires to 16-ft lengths of 2-inch tubular scaffolding to keep the hoses in position.
- 4. For firing, the five charges were coupled together by lengths of Cordtex to junction boxes consisting of dry guncotton primers water-proofed with rubber hose and sealed with cap-sealing compound.
- 5. The timing unit was a No. 27 letonator and safety fuse to give $1\frac{1}{2}$ mimites' delay. The safety fuse was fired by percussion igniter.

Conditions during Operations

6. A fresh on shore wind blew up soon after sunrise and continued throughout the day. This caused a bad surf on the beach, which made work extremely difficult. Considerable time was lost through craft being blown in to the beach while laying charges in shallow water.

Conclusions and Suggestions

7. The ICP (R) were difficult to manage with on-shore wind provailing and heavy surf, being high cut of the water forward. Being single-screw craft, they were very difficult to turn to windward without going full speed on the engines, which was impracticable under the charge-laying conditions, their turning circle being very large. In

/future

- /(f) Oraft carrying stores must make cortain that the beach knows the nature of their cargoes, as the army Beach Group will have a different place for handling small cases, large cases and crane lifts. Generally, they will have to separate beaches for stores and vehicles.
- 32. The only safe way to prevent creft benching in the wrong place was to intercept them before they teached, and give orders to beach according to their earge. Almost invariably the craft that beaches without orders finds itself in the wrong place, and unable to had off when still leade! It then has to lischarge to the discognisation of the Military. For the purpose of control as LCP (1) is most suitable, being more secworthy than ICh or DIKWs, which are also too slow.
- 33. The FEM should make his Heriquerters somewhere on the beach in the centre of the sector, with the hills, and with his Beneficiarities, the MIO and the frigade Commander on the telephone. By keeping constant R/T communication between Philade' control craft it is simple to direct every craft to the correct beach, the beach being werned by V/S (R/T in early stages) where necessary.

Quick Salvage of Crift

- 34. In Operation HUSIT, some 3 legen ICH were attraited early on D day, and remained cahors several lays longer than necessary, until the enginerooms of many has been a flower, and craft were out of action for some time. Each the till conditions been realised, many could have been not off by 1 ying out their own kedges and hauling off at high water. The remaining could probably have been towed off quickly had craft been let illed for this purpose.
- 35. It is suggested that 2 DUKWs containing one-ton trailer pumps with about 30 feet of suction hose should be available in the sarly stages for pumping out craft or fire-fill him afloat. Trailer pumps are usually landed later for the beach brick, but by this means they could be made useful and mobile from the start. In HUSKY, LCE were among the first craft to be stranded; DUKMs are better for laying out kedges.

Maintenance Section

- 36. In HUSIY, most of the LCM orews were under canvas for the first time, and no central camp or rendezvous for turning over to relief crews had been envisaged in the planning. There was no central dump for Flotilla Maintenance spares, or for kit or hammocks to be sent to when the ships were closed. Consequently, kit spares and weapons from stranded craft could be found anywhere on 3 miles of beach, their crews might be anywhere in the same area, or much further affeld after bembing. Several crews ran their LCM for some days without relief, and a number of ratir s were never on any unit strength for draw-ing rations, and were thus forced to beg or pilfer for their existence.
- It is suggested, therefore, that an RN Meintenance Centre could be allowed for in the initial planning. This should be close to constript of boach, with fuel dimps for creft. It is suggested in there should be a staff whose darry while be to cater for Navel in there should be a staff whose darry while be to cater for Navel in there should be a staff whose darry while be to cater for Navel in the constraint with food and shelter. They can be a suggest of organishe sonitation, and sative and personal in the staff of the constraint of the first like and be an a suggest of the constraint of the first like and be a suggest of the constraint of the first like and the like and th

Loud Hailors

/27. Experience has shown that separate loud-hailers for Beachmaster and AMIO are essential, and particularly so at busy periods.

Identity Discs

28. It is considered that string is quite inadequate for attaching identity discs to the person and that light chains similar to those used for a bos'n's call should be supplied, but they should be lighter and shorter.

Portable ramps for IST and LCT

29. On several occasions small water gaps on stretches of soft wet sand had to be bridged before vehicles could be unloaded from LST and LCT. The provision of a fairly light portable metal rame which could be placed in position by a travelling crane such as an RB 10 would have saved bours being wasted in laying army track or duckboards. An alternative method would be to have hinged ramps in the LST, or an additional one which could be slid down the existing ramp from inside.

Note :- Sec also COHQ Dullotin Y/8

(Ref: CR 12,903/43 from Admiralty docket GDO 1781/43).

PART II - SECTION C

(EXTRACTS from REPORTS by a BEACHMASTER on LANDINGS IN SIGHLY AND REGGIO, and subsequently on ADVANCED MAINTENANCE BEACHES at SAFRI.)

Calling in of Craft

- 30. The most lifficult part of a landing from the Naval Aspect was always the controlling of craft in the Sector. ICH could only be controlled when the Loud Hailer overcame the engine noises, as their V/S was definitely poor. ...lso LCM and Major Landing Craft were impatient to beach at the expense of Military requirements.
- 31. The following are set out for the guidance of all Officers and Coxswains, and if followed should ensure good co-operation.
 - (a) Wheeled vehicles must be landed on a roadway to prevent them from bogging down on the beach.
 - (b) Tracked vehicles must never be landed on a wire roadway, as the tracks ruin it.
 - (c) All vehicles must have their engines running before beaching, so that the engine is ready for the stif pull over the beach.
 - (d) Heavy armoured vehicles cannot be put on any beach as the exits may not be able to bear the weight of a 40 ton tank.
 - (e) Squadrons of armour, on bat arise of artillers split between ICT must not land on different parts of the board or they will have to use different exits; and vill be unable to fine their unit for some times.

Amphibian Jeeps

22. The provision of Amphibian Jeeps (or Ducklings) for the use of Beachmasters was an innovation which was more than amply justified. Although most of their employment was on land, numerous occasions cropped up when the fact that they were able to go affect was of the greatest value. It is recommended that in future operations one should be supplied for PRM, and one as well, if possible, for Beachmasters, but that, if not, he should be furnished with a Jeep.

Boats for use of Beachmasters

23. The supply of a small landing craft of some sort for each Beachmaster is absolutely essential for getting out to ships or landing eraft anchored off the beaches, leading craft in, and sundry other duties. If possible, one ICP (S) should be supplied to each Beachmaster in addition to a 'Duckling' as there are several tasks which crop up and for which a 'Duckling' is inadequate, particularly if there is any lop on the water.

Provision of LC (N) for surveys off shore

24. This was a tramendous advantage and enabled Deachmasters to get on with and concentrate on their work on the beaches without having the extra work of carrying out off-shore surveys themselves and the anxiety of not knowing whether their beaches were going to be suitable or not for LCT and LST when they did arrive. The services of a qualified surveying officer, Lieutenant Berneastle, RN and his properly equipped craft were of inestimable value and were tremendously appreciatel. (See MIS No. 7, Part I, Page 2, page 5.

Information concerning and provision of eraft for ferrying officers on duty back to distant bases.

25. As in Operation HESTY, so in AVALANCHE, Deachmasters were being continually asked, all day and every day, by all sorts of officers of all services, how they would get passages back to various bases in Sicily and North Africa for themselves, casualty lists, reels of film, or despatches. In most cases, it was impossible to help them, as, in spite of repeated afforts to obtain information or passages, these were unsuccessful. It is an justed that there should, in future operations, be an information post ashore supplied with up to date shipping information to which military authorities and bone fide individual officers requiring passages, could apply. Further, it is suggested that consideration should be given to the possibility of running a brily or every-other-day trip to bases with an ICI (L) 'Fairmile' ML or other suitable craft. Also that once an airfield is occupied and in operation, Officers requiring passages on duty back to distant bases might be able to go by air, provided the necessary arrangements had previously been made between the Royal Navy, Army and RAF.

Fire Extinguishers on Beaches

26. In two or three cases lorries, dumps of petrol, isolated tins of petrol scattered by explosions, and dumps of stores, which had been set on fire by shell fire or bombs, could not be extinguished owing to lack of suitable fire-fighting appliances. It is suggested that 'Foamene' fire extinguishers as supplied to HM Ships should be supplied, at least 6 to each beach.

1ST Drawhts are usually greater than expected

/16. The draughts of all IST appeared to be well above those laid down as operational draughts (4'6" - 9'6"). In average was about 5' - 10' 6". This was also the ease in Operation FUSKY. One IST loaded with RAF equipment contact aft.

Shallow Draught Tug for each Sector would be of great value

- 17. For towing purposes and for menoguring the pontoon causeways a shallow draught tug would be of assistance, is small American tug was in the vicinity on D + 1 and was used for several jobs. Otherwise the only available tugs had draughts of 14 and 16 feet, and would not approach within 2 cables of the shore.
- Pontoon Causeways (a) Require proper ground tackle (b) Ramps are unnecessarily curbersome (c) Thy not use there as fresh water tanks? The only ground tackle supplied was one small enchor per causeway, which was ridiculously inadequate and could not prevent the causeways broaching to even in a slight swell. Each 175 ft. pontoon should be equipped with two anchors, i.e. four per enuscomy.
- Naval Telephone required between Beach a An Army telephone line was laid between the two beaches of the sector, but a naval line should also be rail when possible. On this particular sector the ideal would have been to have 3 telephones to the 1700 yards of beach.
- Casualty Clearing needs tarted or anisation An ICI (L) per Sector should be obtailed before and in if possible supplied with special gear such or 100 Cross Flog, and if possible something that can be rigged as an uning. This craft should be under the orders of the PBM.

(Ref: CR 12,903/43 from Admiral) . GDO 1781/43)

PART II - SECTION B

SALERNO LANDINGS

(EXTRACTS from REPORT by IRINCIPAL BEACH MASTER - R.N. HEACH COMMANDO "K", SUGAR SECTOR - dated 24th September, 1943.)

Beach Lights and Signs

IST & ICT Beach whit Signs The suggestion of having larges or signs in transit at the ends of the stretch of beach on which these oract should beach is not only unnecessary but impracticable, as namelly the Beach will for a considerable time be insufficiently clear of mines for the rear lamp or sign to be placed. In any case, a of mines for the rear lamp or sign to be placed. In any case, a stretch of beach the rear lamp or nark the limits of stretch of beach stably doubles the number of heavy iron poles which have to be simply doubles the number of heavy iron poles which have to be our ed in season to the blue our ed in season to be our ed in season one pole or independent.

Casualty Clearing

This did not always run according to plan, owing to the LOI (L) previously detailed being taken for other purposes. Lot (L) proved to be best available craft for casualty clearing from the heach (See 20 below).

Naval Medical Officer on Beach

The Naval Medical Officer allocated to FOGER Sector was embarked in my craft and remained there throughout; D day and D + 1, since this was the only available craft. Had a Despatch boat been available I would have transferred him to her. I am fully in agree-- ant with the policy of landing a Naval MO in an early wave.

Pontoon Causeways

The causeways were extremely useful, and it would have been impossible to beach the BOXER class LST without them. They were, however, a continual nuisance due to lack of proper ground tackle.

Beach Organisation and Equipment

- Control of the beach was rendered difficult by the long continuous stretch in usc. Tortunately one III had a Joep and the other one an emphibious Joep. The loud hailer soon succumbed to the effects of sand and dust.
- The PEM's ICA was equipped with the following year, in addition to the normal operational ICA goar :
 - a) Loud Hailor (battery connected in parallel to craft batteries)
 - (b) R/T No. 22 Set (On Assault R/T Move)
 (c) R/T No. 18 Set (On Landin; Move)

 - d) Two 14 ft. sounding poles
 - (e) Aldis lamp (connected to Compass light fixture)
 - (f) Two extra Ord. Session (from Beach Commando) were also embarked to assist the crow.
- A very small scale of enemy resistance succeeded in halting the assault troops at the water's cd; . More mine detectors are required in the assault wave.

Vehicle Carrying Craft must carry 50 yards of Chespaling .

a bad mistake was made in not carrying chespaling, for emergency roadway, in each vehicle landing craft. This should be part of each graft's operational equipment. The vehicle drivers on board each oraft should be organised to lay the chespaling if it is required.

IST Must not use Engines more than necessary on Sandy Beaches

ROCER Sector was ruined for IST by the sandbanks which they themselves had created. All IST kept their engines going shead while disembarking was proceeding, sometimes for 2 to 3 hours. This was simply to keep themselves firmly beached as the cargo lightened. This can be achieved by flooding down. Another undesirable effect of the provenilor wash was to disturb the approach course of other IST beaching

- 5

FART II - SECTION A

SALERNO LANDINGS

(EXTRACTS From REPORT by PRINCIPAL BEACH MASTER, R.N. HEACH COMMANDO "M", ROGER SECTOR - dated 25th Soptembor, 1945).

The ABM at the water's edge, had no means of positively identifying Ambor beach, since he was unable to see over the sand dunes at the back. However, he quite correctly called in the support wave of craft. His torch, though powerful, was visible only a short distance to seaward owing to the smoke loft by the LCR and from exploding mines. The torch beam was also too directional.

Support

- 2. There were no Support Craft in ordenee close to the beach after H + 30 minutes, although some craft shot of the enemy battery with either 0.5 or Oorlikon fire. This was a langerous course of action to take. Our troops had been ashere for a considerable time and presumably were encircling the battery. High velocity fire against such a target was for more likely to cause casualties about our own troops than among the enemy, who were probably dug in. A similar incident occurred at Bark South in peration HUSKY. Presumably the presence of an imay Officer in the Support craft is designed to prevent these incidents.
- 3. The LCA fitted to fire 3" morters would have been most valuable for neutralising this battery, as well shoke morters of the LCS. However, lack of liaison between the shore and the close Support Craft hale this a hazarbous proposition, especially in view of the inaccuracy of morter fire in the dark.

Beach Development

4. Owing to the space limitations in the craft, there were no "made-up" mats of Summerfeld available, and this slowed down the Operation HUSKY.

Beach Reconnaissance

- 5. A survey by an LCN at H + 5 hours showed that it was possible to beach LST with a maximum draught of 10 feet continuously for one mile to Southward of Tusciano River mouth. This survey proved rather optimistic as few of the LST were drawing as little as 10 feet aft. (See 16 below). However, they could beach with ease for 1200 yards south of the river mouth.
- 6. Unfortunately the beached IST used their propellors continuously to keep themselves on the beach while discharging. The propellor action soon made great differences in the underwater contours, the bottom being of loose sand, and eventually only isolated places remained uscable by the majority of IST. (See 15 below). All other craft could beach dryshod on both Amber and Green.

Beach Defence - Belloon Barrage

7. The presence of the barrage had an excellent effect on morrile and was certainly effective in keeping away low-clying raidors.

- /21. BUIOIO handled an everage of 1230 messages a day for 3 lays. The number of lines menned, including "Y" and intercepts, amounted at one time to over 40.
- 22. As helboom enticipated, the proportion of traffic handled by V/S was conditorably his how than in Operation TORCH.

Beach and Craft Signals

- 23. Linison with army Boach Jianals ashore appeared per in a me cases, though this as probably due to impersion forced on Boach Stations by bombing and straffing of which they had considerable experience.
- 24. No. 46 sets were reported to have been put but if notice in several cases by mean-by books.
 - 25. All Leaches worke' well in Nev I Burch Wire.
- 26. The performence of DEAMs was no i the fortures if the Operation. It is not mean to that their use for transporting Beach Si nals be investigated.

Bonder ment C . s unic ti ns

- 27. FOOS when show in jutting a nivet, but once a maunication was established, it first-of shours, on any effective shour ware carried at a tracks up to 28,00 yes. The time required the many law first one of 15 characters of the time of the which is comparable and well active to
- MQ ship kept of other control than proviously ver he POCs, who, i'r their part, were called to be to be to be their a to her when unable to control their trains of pictors. The radio bail town for the use of BOW appears to work well.
- 29. Owing to the lateness of 13 C mas in leaving BULOLO, the control of bother hunt remained with her long after the FOOs were out of W/T rand. This results in allay and inefficiency, as FOO messages were ranged by the bomber in aships on Bumbertment Calling Wave, which thus because a message.
- 30. From adepunts so for received, the Force R/T Browleast was well received on the Bhorson sets at close ranges, and two instances were noticed where orders passed on the Force R/T Browleast were acknowledged in BCW.
- 31. The FOOs made sensible use of fleet Code, and those Airborne FOOs who did not carry it conclaimed afterwards that they felt the need of it. To prevent the possible early compromise of a code which is widely held and used during an assoult, it is proposed that in future operations a special CODEX be issued to FOOs and BLOs.
- 32. The provision of a crystal for the FOOs own wave is also considered desirable in future operations when this can be arranged.
- 33. No use was made of the FOOs signalmon, although this was a coastwise operation where the use of V/S might have been expected. It is suggested that signalmon could now be withdrawn from these parties without loss of officiency.

 (nes CE 11.7814/1)

Naval Supporting Fire

- 13. Unobserved indirect fire which had to be used in the early stages proved more effective than had been expected in neutralising and in some cases even silencing enemy batteries that were shelling the beaches. This was no doubt partly due to the fact that these batteries were manned by Italians whose norse was low. In one case, however, the third salve from a destroyer (ESKIMO) set fire to the cordite dump of an unseen battery and, although the guns were undamaged, nothing more was heard from it.
- 14. Direct and indirect bombardments of towns and large area targets by more than one ship without FOO observation were of considerable assistance to the Army, and the early capture of Melilli in particular was but to this form of support.
- 15. The importance of ships working with their own FOOs on their spotting frequency before the operation again received emphasis. It was very noticeable that, where a ship was given the same FOO, contact was made nore quickly on subsequent days than on D day.

Evacuation of Cosualties

- 16. Throughout this operation the hespital ships lay bout 7 miles off the beaches during 'aylight and 15-20 miles during the night. As a result of this it was not possible to evacuate casualties after 1600 hrs. ICM evacuating casualties from beaches to Hospital ships were forced to make a round trip of 3-4 hrs., and as a result the number of cases evacuated was small.
- 17. If a short sea crossing (under 100 miles, is involved and casualty incidence is high, LCT and LST could be used to evacuate casualties to base Hospitals. They would require Medical Officers and Sick Borth Staffs. Specially equipped, non-operational LCT would be almost ideal for this purpose.

Water Supply

18. The need to carry water in MT ships together with some method of discharging it cannot be over-emphasised; water is just as vital as petrol and amaunition. A small water tanker should accompany the force to the assault area. This could supply the needs of all small craft and itself get topped up from larger vessels.

Communications

- 19. The use of an inland Military Headquarters as planning centre has many disadvantages, among which the delay to Naval Communications was one of the more serious, despite the assistance of the Commander-in-Chief, Levant, FORSCA and RNCHQ, Middle East. L/T in Egypt is congested and more than liable to interception, and Army Despatch Rider services suffer from handling delays at Mossage Centres.
- 20. After a slow start, the communications of all Services worked most satisfactorily -better than in one's most sanguing hopes and the conception of the Headquarters Ships was again proved sound.

Sector Lights for Craft.

/7. A recommendation effecting all types of landing craft is that craft belonging to each sector should burn storn lights of a distinctive colour. There were several instances of craft attaching themselves to groups proceeding to other sectors.

Save on Smoke Floats

8. On the grounds of economy, both of cost and space, it is strongly recommended that ships should carry have No. 2L smoke generators for burning on board, in place of Naval smoke floats. The generators are also very much easier to handle, weighing only 35 lbs. as against 150 lbs. Portfires and Bickfords fuze should be supplied with the generators. Naval smoke floats should only be used where they are required as floats.

Distinguish Our Traces

9. When the Arry is advancing along the coast the forward elements should have some form of recognition signal (smoke or pyrotechnic) to indicate their position to supporting ships off shore. Several valuable opportunities of providing effective supporting fire were lost due to uncertainty of the position of our forward troops, as also were opportunities of destroying columns of transport later discovered to have been energy.

Landing Supporting arms on the Heels of the Infantry

beach in the correct place and discharge their vehicles in the dark. DUKWs are considered to be the inselicte answer to this problem. It is strongly recommended that each LCT should carry at least 4 of these craft; pre-loaded with anti-tank and A weapons. DUKWs can swim ashore and carry the guns over the beaches and in fact to any p sition where the Army require these weapons. By this means a proportion at least of the essential supporting arms can be leaded whatever difficulties are encountered by the LCT.

Overloading of LCT

11. LCT must not be so over-loaded that vehicles drawn due to the craft having beached in too deep water. The LCT available were at the last moment found to be considerably less than the planned figure. All the vehicles were, however, crannod in, and since few, if any. All the vehicles were, however, crannod in, and since few, if any. ICT were drawing less than 4 ft. 6 inches, many vehicles were drawned on emerging and required bulldozers to haul them clear. This caused much delay.

Training of Vehicle Drivers

12. Compared to the Americans in TORCH, the standard of driving of W/T vehicles was very poor. Many stalled their engines at the writidal moment, which caused them to block the exits both from the total from the beaches.

PART I

EXTRACTS FROM REPORT ON OPERATION "HUSKY" BY NAVAL COMMANDER, FORCE "A" (See also Bulletins Y/1, Y/6, Y/10 and Y/20).

The first of many successful bombardments on the line of retreat of the enemy was carried out by UGANDA and MAURITIUS during daylight on 11th July in the Augusta vicinity. The performance of all supporting ships has been warmly appreciated by the Army, and the number of testimonials to the accuracy and offectiveness of ships' fire has been one of the features of the Operation.

On 12th July EXMOOR and KANARIS again entered Augusta, followed in the evening by BROCKLESBY flying the Flag of WCETF, whom I accompanied. The ships were shelled by high velocity guns of 3 to 4 inch calibre and had to clear out. Uncertainty as to the whereabouts of our Army made adequate retaliation from the Cruisers and Monitor impossible. (See 9 below).

Quick Discharge of Personnel

The big personnel follow up convoy MWF 37 entered Syracuse at about 0945 and immediately began to discharge. To well was this done that all the 12 ships were empty and away by 1900, a notable achievement. Intermittent attacks by aircraft with bombs and torpedoes between 2145 and 2345 caused some confusion in this convoy, but no damage or casualties.

Good Use of Smoke

The anchorage was well covered with smoke before last light each evening, and before first light each morning. A very effective screen was produced by all available means - smoke floats in ships, smoke floats in craft, CSO smoke in destroyers and graft and furmel smoke. The fact that no ship was hit during fairly heavy attacks ovor a period of 7 bright moonlight nights must be attributed largely to the effectiveness of this smoke.

Siting of NOIC's H.Q.

At Syracuse the Military Authorities were endeavouring to establish the NOIC and Headquarters in the vicinity of the Gun Operations Room about 3 miles inland. The building was too small and the position chosen was unsatisfactory. The Naval Liaison Officer on the staff of NOIC was therefore detailed to romain at the Gun Operations Room, and Navy House was established in the Municipal Offices, a large building well situated on the waterfront.

Training Wasted

Force "G" was formed in January 1943, and trained together first in Scotland, and later at Sucz. By early July the Force, in addition to being trained, properly commanded and administered, had attained a real esprit de corps. Discipline, etc. had improved out of all mowledge, and Officers and man were joined together in a common bond for a common purpose which even the heat and discomfort of 2 muchs of the Red Sea in summer did nothing to affect. But once

Copy No. 81...

COHO Bullotin No. Y/21

REPORTS ON MEDITERRANEAN OPERATIONS.

Contonts

by Naval Commander, Force "A" on "HUSKY"	Page 1
Part II Section A: by Principal Boach Master, RN, Boach Commando "M", on Salerno Landings, Roger Sector.	5
Section D: by PHM, RN Beach Commando "K", on Salerno Landings, Sugar Sector.	7
Soction C: by a Beach Master on landings in Sicily and Reggio and subsequently on Advanced Maintenance Beaches at Sapri.	9
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Distribution

This Bulletin has been distributed to all recipients of COHQ Monthly Information Summary No. 8, with which it is despatched.

Issued from -

Combined Operations Headquarters, 1A Richmond Terrace, Whitehall, LONDON, S.W.l. - January, 1944.

(Refs: CR 11,781A/43, CR 12,903/43 from Admiralty docket GDO 1781/43, CR 11,846/43, CR 11,878/43, CR 12,722B/43, 4462/Med/00361/R2.)

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31 James MA

EMPRANDUM POR THE DESCRIPTOR, OFFICE OF STRATEGIC SHRVECHES Subjects Transmittal of Interial from B.J.S.K.

L. Enclosed with the compliments of Captain E. B. Tollemanhe, R. H., Chief of Combined Operations Representative, B.J.S.M., are copies of C.O.M.Q. Bulletins Y/21 and Y/22 and a copy of Monthly Information Summary.

Per the Deputy for Administration, G-2:

R. H. GREATHEAD, Jr. Major, Air Corps Consommenth Section Fereign Lieisen Brunsk

Inclosurest 2 COBO Bulletins Monthly Information Sum. Receipt for metern the Capt. Tollamaha Receipt for return to Fereign Maison Br. (dup).

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INFORMATION

To

Subject COHQ Bulletins Y-21 and Y-22 Nonthly Info Summary

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WAR DEPARTMENT

WAR BEPARTRENT GENERAL BYAGE MILITARY INTELLIGENCE SWIBIGH & Q WASHINGTON

MID 311.19

31 James 1944

MEMORANDUM FOR THE DIRECTOR, OFFICE OF STRATEGIC SERVICES:

Subject: Transmittal of Meterial from 8.J.S.M.

1. Enclosed with the compliments of Captain H. D. Tollemache, R. N., Chief of Combined Operations Representative, B.J.S.M., are copies of C.O.H.Q. Bulletins Y/21 and T/22 and a copy of Monthly Information Summary.

For the Deputy for Administration, G-2:

R. n. Gustenl,

R. N. GREATHEAD, Jr. Major, Air Corps Commorwealth Section Foreign Liaison Branch

Enclosures:

2 COHQ Bulletins
Monthly Information Sum.
Receipt for return to Capt. Tollemache
Receipt for return to Foreign Limison Br.(dup).



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BRITISH JOINT STAFF MISSION OFFICES OF THE COMBINED CHIEFS OF STAFF WASHINGTON

27th January, 1944.

Commanding General, Office of Strategic Services, Washington, D.C.

With the compliments of

Captain H.D. Tollemache, A.N.,

Chief of Combined Operations Representative.

MOST SECRET

In reply, quote :

Combined Operations Hondquarters, IA Richmond Terrace, Whitehall, S.V.l.

15th January 1943.

C.O.H.Q.

MONTHLY INFORMATION SUIMARY

No. 8 of the COPP Monthly Information Summary is forwarded herewith. Much of it is MOST SECRET, a. I special care should be taken to ensure that no unauthorised person has access to it. For distribution, see overleaf.

- 2. Most of the information has been issued more fully in the COHO Bulletins to which reference is made. These have been distributed according to their contents, but any recipient of this Summary who requires a Bulletin which has not been sent to him should apply to COHQ, stating the Series letter, the number, and the title of the Bulletin.
- 3. Part II of the Summary is confined to reports on Trials and Experiments. Bulletins issued under this heading are necessarily restricted in distribution.

Chief of Staff for CHIEF OF COMBINED OPERATIONS

DISTRIBUTION

This Summary has been sent to all on the list supplied with No. 7, and the following :-

Section 1. D. of N.

Chlof of Naval Operations Section 5.

RAF Delegation

Commander, Atlantic Floet Amphibious Training Command, Naval)porating Baso, Norfolk, Virginia,

Section 6. Commander, US Plact Task Force 122, 15 Grosvenor Sq:

Section 7. Operational Br., Lovements Div., Transportation Corps.

Section 8. GOC, 3 Canadian Div.

Section 10. Captein, Group L 1, Force L.

Captain, Group L 2, Force L. Captain, Group L 3.

Section 14. Royal Consdian Air Force HQ.

Section 15. HQ Raiding Forces, IE.

Section 16. Ordnance Consulting Officer for India, Varre Schools,

Cormon Line, Eton.

Section 17. Major R.R. Fairbairn, c/o US Navy Unit M, Plymouth.

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COHQ Monthly Information Summary No. 8.

Signature

Rank Address.....

Date

This is to be returned to :-

Despatch Department, Combined Operations Headquarters, 1A Richmond Terrace, Whitehall, LONDON, S.W.l. (1)

Hor : 4614

NOST SECTO

Copy No. 1

COMBINED OPERATIONS HEADQUARTERS

MONTHLY INFORMATION SUMMARY No. 8

December, 1943

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Contents

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SECTION B

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SECTION C

Force when the Main Base is not in the Theatre of Operations

SUMMARY OF REPORTS ON COMBINED OPERATIONS

/Reports

SECTION A

MAJOR POLICY DECISIONS AFFECTING COMPINED OPERATIONS AND CHANGES OF ORGANISATION IN C.O. COMMAND.

Assault Warfare Committee - December

The following items were discussed during December and recommendations made to the Executive :-

(a) Deception in Combined Operations.

(b) Consideration of qualitative and quantitive craft requirements for operations against Japan.

(c) Consideration of a new form of craft for use by special boat units.

(d) Recognition of aircraft and control and restriction of flying and AA gunfire in amphibious operations.

Re-Organisation of COHO

- 2. In accordance with the directions of the Chiefs of Staff Committee, the organisation of COMP has been re-modelled.
- 3. Under this new organisation, the Healquarters staff is divided into functional groups, each group a misting of a fisci staff from all three Services. The three mannary work under the direction of a member of the Executive, each of whom is responsible to the Chief of Combine Coperations. (See 6 below).
- 4. The Executive comprise the three heads of the Service Staffs and the Chief of Staff. They are known as :-

		Short Titlo
Chief of Staff (Brigadier R!)		cos
Naval Member of Executive (Commodore, RN)	Director of Combine t Operations (Naval)	DCO (N)
Military Member of Executive (Brigadier)	Director of Combinel Operations (Military)	DCO (Mil)
Air Member of Executive (Air Commodore)	Director of Combined Operations (Air)	DCO (A).

In the absence of OCO, the Chiof of Stafr acts as his deputy and as Chairman of the Executive.

5. A broad outline of the organisation is as follows :-

/cco

COMBINED OPERATIONS TACTICS, TECHNIQUE and EQUIPADENT (INCLUDING PLANNING).

British Boach Markings.

(The following British system of Boach Marking has now been adopted. Coloured cards illustrating the system are being printed and will be issued by Admiralty.)

Dosignation

Soctors to be referred to by the Anglo-American phonetic alphabet in order from right to left facing shoreward.

Doachos within sectors to be named by the colours "Green", "white", "Red" in that order from right to left facing shoroward.

Establishment of Sectors

- 2. (a) As soon as the stretch of constline has been chosen where the landing is going to take place, it will be divided up into sectors. These sectors will cover the whole coastline, whatever its nature, beach, cliff, rock, esplanade, etc. Their limits will be geographical features which can easily be identified either from charts, maps, or air photographs. As instances will arise with very long beaches where no convenient feature can be found, a landmark just inland may have to be used.
- (b) It is impossible to lay down the length of these sectors, but they should selden exceed 3,000 yards.

Establishment of Bonches

73. Roachos within sectors will be established by Force Commanders. Where only 2 beaches in a sector are required, the White Beach will be omitted.

Description of Beaches

4. Beaches will always be referred to by the Sector and Colour. The word "Beach" is always to be included in the description.

Examples: - "FOX GREEN REACH" "DOG WHITE BEACH".

Signs

- 5. Centre Mark: Each Boach will be marked near the centre:
 (a) By day with a 9' x 9' rectangle coloured the same as the "Colour" of the beach, with a 6" white border and marked with the appropriate Sector letter in White. In the case of White beach, the sector letter will be marked in black.
 - (b) By night with a light of the same colour as the beach flashing the appropriate acctor letter.
- Flank Limit Marks :-
 - (a) By day Limit of all beaches will be marked by a White rectangle 12' x 4' placed horizontally on the left limit and vertically on the right limit. Rod and Groon beaches will

/clec

(b) All Landing craft to be permanently fitted with one of the budys referred to in (a) above, which is to be so placed that it will "watch" automatically showed the craft sink.

(o) Wrecked landing craft which are uncovered by the tide will be marked by the Beach Party by lashing upright to the hull a 15' pole rainted with alternate green and white l' length bands and carrying a green square flag. To exhibit a green fixed or flashing light by aight.

(d) Shouls or obstructions located by Hydrographic Craft off the boach will be marked by this craft using the cross-plank buoy described in paragraph (1) above, moored with a 2-cwt. sinker.

(e) The buoys and marks referred to above must be given a wide borth, the craft passing to leaward (or downstream) where possible.

14. Fort Hand Buoys A cross plank buoy with black 5' wooden upright and black perment, exhibiting a white fixer or flashing light by night, accord with a light by night, according to the light by night, according to the light by night according to the light by night by

15t Starboard Han? Buoys A cross plank buoy with red 5' wooden upright and red and yellow liagonal square flow, exhibiting a red fixed or flashing light by night, record with a 1½" homp to a 2-cwt. sinker.

16 Surveying Marks Hydrographic Units may use marks, buoys and lights of any shape or colour provided they cannot be confused in any way with the marks, buoys and lights laid down in paragraphs 15, 16 and 17 above, nor with the Standard System of Beach signs and lights now agreed upon. The following marks have been agreed:

(a) by the (i) Ashore - Yellow poles marked with white and/or yellow jurgee.

(ii) Afloat - Cross plank buoy with white upright, carrying a white, yellow or blue (or any desired combination of these colours) Durgee.

(b) By night Should it be necessary for survey work to be carried out at night, the colour and use of lights will be decided by Force Commander.

17. As a consequence of the above, Appendix "D" to "ombined Operations Pamphlet No. 17, RN Beach Commandos, is cancelled and Appendices "A", "B" and "C" will be revised at an . rly fate. See also Section G.

(CR 12,807/43)

Nomenclature of Headquarters Ships and Senior Officers

18. The following is the standard nomenclature for Readquarters ships and Senior Officers:-

Senior Naval Officers	HQ Ship or Craft	Associated Military	Remarks
(a) Assault Force Commander (Flag Officer or Commodore)	Assault Force HQ ship (ISH).	Assault Divisional Commander	
Or Commodore)	* 1	The State of	,

/23. For Special Triefs, og, when testing the sudtability of a craft for landing in rough sea or swell, the actual estimated height and length of the sea or swell should be given and also the depth of water. When possible, the height and length should be measured by the "SMD" recorder, and air photographs taken for comparison with reconnaissance photographs.

(OR 11,844/43)

The Planning of Combined Operations (Bulletin T/8)

report from the Middle East
24. This/summarises the results of experience gained in .

that theatrete July 1943 in the planning of an amphibious operation entailing a sea voyage, as distinct from a cross-channel operation. This, in cortain respects, involves considerations different from those discussed in Combined Operations Pumphlet No. 4 (which is now being revised), and the Bulletin takes into consideration differences of procedure which are bound to arise when planning is carried out in a Command overseas.

(CR 10,426/43)

Loads and Draughts of ICT (Bulletin T/9)

25. Gives necessary data to prevent overloadin of any type of LCT. The information is being issued also as a Training & Technical Instruction for Major Landing Craft. Restrictions imposed on the loading of these craft in the Mediterranean Command were reported in MIS No. 5, Part I, paras. 14-18.

(XR 1,960/43).

New Brigads Landing Table (Bulletin T/10)

26. Specimens of the Table now being used in UK, with instructions for its preparation. It has been agreed by War Office (Q(M)6), 21 Army Group and COHQ. (CT 941/43)

Craft Recovery Units (Bulletin U/4)

27. Outline of organisation being set up by the Admiralty to deal with the recovery of craft on the beaches during a seaborne landing. (CT 1,358/43).

Maintenance of Army Equipment for an Expeditionary Force when the Main Base is not in the Theatre of Operations (Bulletin U/5)

28. This is a revision of Bulletin S/3 (later reclassified as U/1). See MIS No. 6, Part I, page 6, para. 20.

(CR 9,295/43)

Making Smoke in LCT (R)

29. See Part II

SPOTTON C

19 P

SECTION D

INFORMATION FROM ABROAD

Japanese Landing Operations

The following extracts are from a captured Japanese file of Landing Operations Data belonging to 10th IND ENGRS RECT. prepared by Allied Translator & Interpreter Section, South West Pacific Area:

Selection of Landing Point

- 2. In landing on the enemy coast where breakers are anticipated, there will be cases where, from the standpoint of tactics, the actual surf and terrain are found lifferent upon landing. For such cases, two or three places can be selected for landing points.
- 3. For example, in the landing made on 10 December at Aparri, on the north coast of (Luzon Island, there were no large breakers at place No. 1, where they were expected, and the landing was therefore made here the first lay. Towards night the surf became rough, so, although far from the objective, anchorage was changed and the landing was carried out effectively at place No. 3, where the surf was not heavy.
- 4. In landing on coasts which have rock-strown and reefy waters, try to landin a valley or in a bay near a river mouth. This is because there generally are many rocks where there is high land along the coast and reefs are not likely to be present in fresh water. Consequently shores where fresh water runs into the sea will generally have openings.

Reconnaissance

- 5. Reconnaissance of coasts with special characteristics must be continued even after the first-wave landing. This is especially true if the first-wave landing takes place at high water, since with low water a change of route or landing point will become unavoidable.
- 6. Where the enemy is in strong position, a thorough reconnaissance of the direct front is difficult. Yet do not be satisfied with simply looking for a route by which the boats can enter. Study the condition of the rolling waves, where they break, discover where the gaps are then advance.
- 7. Water routes marked with flags or smoke signals would only result in revealing the plan; consequently, the first landing, if conditions necessitate, will be carried out win no markers. Carry out thorough reconnaissance for the second and later boats and indicate safe routes.

Selection of Time for Landing

8. It is necessary that full advantage be taken of high water on coasts having rocks and coral roefs. Along wooded coasts it is generally better to take advantage of low water.

/used until feet touch bottom. It is best to sling the rifle over the shoulder. Likewise, in lending at night, it is a good idea to have the leading soldier of each 4 or 5 mon in a Butai hold a guide pole horizontally. This may be used to measure depths while advancing.

(b) It is possible to unload horses with protective knee bands and straw shoes.

Measures to increase Efficiency in Loading and Unloading

- 19. Several points of landing should be selected.
- 20. The transport ship's anchorage must be near the shore.

Unloading of light armoured car and jun carriage, 105 mm howitzer

- 21. It is possible to lebark light armoured cars and 105 mm. howitzers without special preparations. The lepth limit for the light armoured car is about 50 cm; for the 105 mm howitzers, about 80 cm.
- 22. When the coral reefs are not particularly rough and the breaking waves are less than 30 cm. it is possible to debark, selecting a suitable landing spot and preparing simple passages. Cut lown the sharp points of the coral reefs with sledge harmers and fill the rough spots with sand bags and straw bales or straw mata.

M. Measures

23. Boats which are not being used should immediately be hidden in the shade along the water's edge or camouflaged with materials similar to the surroundings.

Anti-Submarine Measures

24. The transport ship must, in accordance with plans, anchor very close to the landing point, so that it can run aground quickly if so required in case of an emergency. Select background so ship won't stand out against sky.

Landing Equipment

25. Appended at A, B, C and D are drawings equival from the file, of various items of inquestional landing appropriate.

(Int./320/1 - NID 08563/43)

SECTION E

COMBINED OPERATIONS COMPERENCES AND COMMUTERS

See Section A.

SECTION F

Soo

PART II

- / X/11 A possible Use of the Service Respirator as a Life-saving device.
 - X/12 Notes on Special Devices for Overcoming Reach Obstacles
 - //13 LCT IV and V = Camouflage Covers
 to Tank Docks
 - 1/14 Launching of "Snake" from LCT
 - X/15 NL Pontoon Equipment
 - X/16 Notes on American 4.5 Rocketlaunchers for operation in the For East.
 - X/17 MC Deach Tester.

Re-numbering of Bulletins

6. In MIS No. 7 Part 1, page 10, para. 6, penultimate line should read ""/5 See para. 2 (a) of this Section". On page 11, para. 7, thir! line should read "Re-number this as builtin T/7".

CO Temporary Memoranda

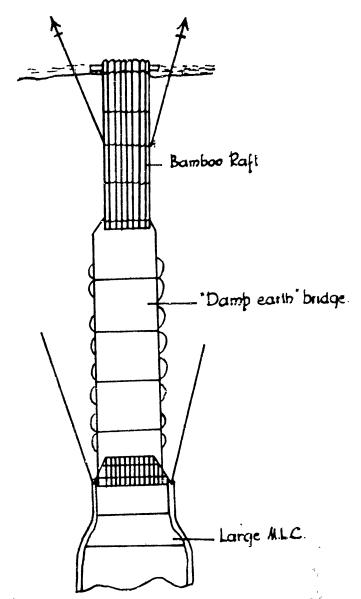
- 7. The following were issued between 16th December 1943 and 12th January 1944: :-
 - No. 82 US Training Films "Abandon Ship" and "Celestial Navigation Part 9: The Sextant", of interest to CO Naval Training Establishments. Apply according to AFO 4.251/4.3.
 - No. 83 Details of courses in Radio Aids to Navigation in HMS NORTHEEY.

/SECTION G

APPENDIX A

DRAWING Nº L

Simble landing bier using damb earth bridge and bamboo raft.



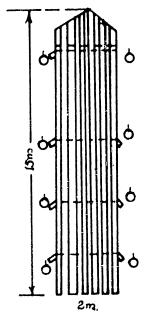
(EN Exact tracing from document.)

APPENDIX 'B'

DRAWING H' 2

Type of bamboo raft transported aboard ship to be carried by M.C.

Personnel, MG, iA and amn will be loaded on the raft.

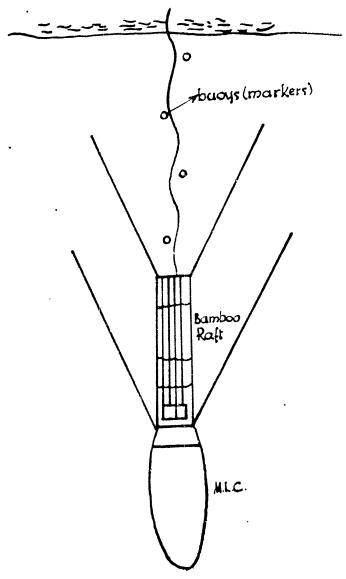


(EN Exact tracing from original document)

APPENDIX C

DRAWING Nº 3.

Materials used for crossing rocky or reef-bound waters



FN (Exact tracing from original document)

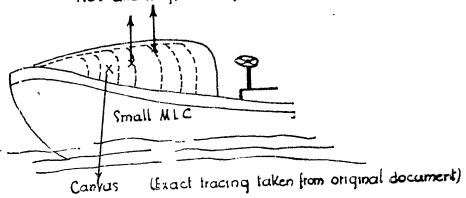
APRENDIX D

DRAWING Nº 6

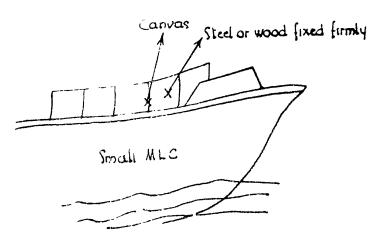
Improved boals gear for use in choppy seas.

PLAN A This plan is suitable if light weight and ease of removing and setting up is desired.

Tibs and stays made from bamboa or thin tron.



PLAN B In considering flooding, this pion is inferior to Plan A, against very toagh seas



(EN Exact tracing from original document)

TLORET

COHO HULLETIN NO. Y/22

EXTRACTS FROM EIGHTH AIMY FIRST LESSONS FROM "HUSKY"

(This report is published for information and does not necessarily reflect the policy of Combined Operations Headquarters).

DISTRIBUTION: All recipients of COHQ MIS No.3.

Issued from:-

Combined) crations Feedquesters, 1A, Richmond Terrace, Whitehall, I/ DON, S.d.1.

(Ref: CT 1322/43 10 January 44)

G(OPS) SECTION 1 Communications SECTION 2 . Order of Battle Organisation of Ferry Control Working of Ferry Control Planning Staff for Ferry Control Progress Reports - Ferry Service AIR SUPPORT CONTROL SECTION 3 Codes and Ciphers Bombline Landmarks and Recognition Air Limison Officers CシI SECTION 4 Air Photographs Administrative Planning Security AFV SECTION 5 Provision of reserve tanks Provision of Forward Tank Delivery Squadron Provision of times for tends SECTION 6 General A:.ti-Aircraft 5 Self-propelled Art llery Borbardment Lie ison Officers and Naval Form of Observation Officers SECTION 7 Anny Troc. s 5 Bridging SURVEY SECTION 8 Initial Planning Stage Air Photographs Map Production Provision of Survey Troops CAMOUFLAGE SECTION 9 I.EDICAL SECTION 10 Ambulance Transport 6 Hospital Ships Returns Burial Rations ORDNANCE STORES SECTION 11 Layout of beach and roadhead areas Adequacy of Landing Reserves Unloading of ships

Stock Roturns

PIRED TRESONS FROM HUSKY

SECTION 1 - C(OFE)

Communications

- 1 Allowance must be made for a Tactical Corps Headquarters in the deadquarters Ship. Anny current deal lirect with Divisions in Headquarters Juips but must deal through a Corps Testical Headquarters, which should be togeted with adequate accommedation and signate in the Headquarters Ship.
- 2 As early as possible as advanced calcies of Caps in departure should be landed, with good signals communic times. This should eliminate fixed assuminations bettlenock of the Nord Parton Ship.

SECTL B 2 - JD

O ter a Battle

5. It is essential that revenents it rition in vita accorde information regarding and line of units from the new land set informations.

Cr. als tion of Ferr Control

- In a mondorner of them, the personnel, velocies the stores which we complete in after the initial case it will nearly two be carried on the and craff forces. From a correspondence that forces will determ to build-up of the controlled by the correct Stoff.
- There has been a tendency, however, for the General Staff to attempt too close a central of the advencents. The criff in Fory Services. This means that the General Staff are a region and the tate of Mayound Ontal, address of the Ri, advance the Concrel of firsh all outside mount of rests to do a ling the priorities in which units are to be called my reduced the priorities are to be called my reduced the priorities for the property of woming and move or error of the priorities for the property of the priorities to a constant of the priorities for the priorities of the priorities of
- 6 As a result of the determine a first after the by the General Stair there was a tendency to break quite 27 till etc. reliable a manufacturally operate. This results in more any defficiency and eventually almost chaos.

Working of Forry Control

At Ferry Central Mq. During the Thrat few days of the operation there must be a daily Ferry Central meeting at the tarmy MQ to decide any changes of priorities and rate of clearance from various ports during the next few days. These accordings should be run initially by G (Ops) and attended by representatives from SD, Q, May & Tn, Raf, the GSO I Ferry Central and a representative of the Naval authority controlling the movements of landing craft. When the operational situation possible, the running of this daily meeting should be handed over to GSO 1 Ferry Central.

Planning Stoff for Ferry Control

- 3 The Collowing Planning Staff work is required in connection with Ferry
- (a) Estimated build-up rate for each port, detailing the physical
 - See Estate Service Services

The provision by EICHTH ARMY of a progressive series of forecast bomblines for use on D day, it all comminications failed, proved of value and appears ossential in an operation of this nature if direct support is available at an early stage.

Throughout the operation ElGiTH ARM forwarded bomblines which were consistent and appeared to reflect faithfully the movements of forward troops. The definition of the bombline as the producted line of forward troops for the next to were is a w well understood by both the Army and the Air Forces; it alwald be amored to, any temptation to offer 'fancy' b. Dlines of n. related the forwarding of two bomblines, one on estimate of traction to the sthere a 'sado' line.

Landmarks and Recognition

12 There were few rejects of the tree out the challenges or the use of smake for recombling of the first transfer indication of targets. Part experience indicate that the isolay of initiative year, and traps in these attentions of the core.

Air Lide n Of core

13 The province Air Li on Cff sort to P30 groups (Fightern of Strate is Air P. vo.) while to it yet tactically would have about considerably and over offert and be able to provide them is calable access on the province.

مرتم - على الرام الكران

.ir Phot rally

14. It has soon a wall out the hard their helivery. Only the unit which three laces a hard thereby he is helivery. by a deing can delagance eliminated. It that the next day's sortion for a the plane no ferriod, with a construction of the plane no ferriod, with a construction of the plane uncertain who there o wer asked for had in fact been taken.

administrative Planting

15 An M1(X) officer should to a cointed to deal with the detailed administrative planting in connection with the save of CSI and kindred units.

Securi ty

16 Security during the planning ported should be dealt with by a special GII I(B). It was found that he was fully occupied.

SECTION 5 - AFV

Provision of reserve tanks

It is necessary to ensure that a supply of reserve tanks fully crewed are immediately available to replace sinkings.

particular beach.

Anti-aircraft Brigaliers with their skeleton staff should be larded early to give thom a chance of taking over their area. It is best to keep Brigades to a cortain type of defence such as airfields or ports, and not to mix them up. This action will ensure that the anti-surer It of bricks is proporly co-ordinated for area defence as so n as this is possible, and this anti-aircraft will probably wasist considerably the defence of early airfields.

Self-propolled artillery

23 Self-propelled artillery is of the Santost value in the early st es of landing.

Bombardment Liaison Officers and Navil First rd Observation Officers

24 The allocation of these should be the one carry as possible by the Assault Support C littee. The poliner / for carrying the ogreed plan into action is a viled by the Jonian Benorrement Liaison Officer, who works with the R yes how, The Terw rl Observati n Officers should land dismounted with N.6 sets, and it is essential that such F overall observation Officers styllicate a Jesuin the early observations over let the resimilar set in the early observations over let the resimilar set in a set after the rely on units to sunt tle Forward Observ to n Officers.

JEUTIO ._7_-_14

Army Tr Ju

25 Army treeps units of the responsible in the name of all be placed under elemant of the Olige, Division of a lowest when they are landing.

Brilging

Divisions must tend with their or drive equipment on wheels. landed as RE Store, equipment is al. . t valueless, swing to lack of transport at the bear - level and time term to cert equipment. If bridging equipment is not eventually regarded to lit can be off-leaded and the lorries used in the artises.

SECTION 8 - SURVEY

Initial Planning Stage

The main survey tacks are:-

(a) Production of up-to-date maps including Defence Overprints.

(b) Collection, exemination, publications and distribution of trigonometrical data.

(c) Provision of Survey troops for work in the operational area.

Air Photographs

28 Early provision of air photographs over areas of which maps are known to be out of date, and in which trigonometrical data is insufficient will be of immense value.

Unless obtained well in advance, this information cannot be incorporated on maps other than "Defence Overprint" sheets of particular small avece, nor can trigonometrical data be supplemented in time

- 7:-

noved without notifying the beach. For leading, the thise mint come is close to the beach as possible. Constant demandations between the Hospital Ship and the beach is essential.

- 36 Evacuation by crait can nover be successful and it is important that each Hospital Ship be equipped with twelve water ambulances. The evacuation of patients then is entirely in Medical hands, as it should be, and it will then be as feelings as is possible to make it.
- 37 Hospital Ships must sail as regionly Medical authorities, subject only to Naval operational control, and one simpler way of calling them than the present pender us not. via Q(M) and Soa Transport to the Commander-in-Chief Mediterranean 1. in crative.

Returns

38 On the beach, the Brick Senier Mc Weal Officer requires a larger staff in order to compile adjectly the accountry returns. One Senjeant and two Corporal Clarko should be abled to this staff. This would be mit free advances of the Control of th

Burial

39 There was much a causion wir the posts as if varial. This is not of course the lical residuality, once if I recess thing in Medical units. In the planning stage the responsibility for the burial of dead on the backes must be a right at these.

<u>il stions</u>

40 Brick Medical 3. The last how sale water not ins for the maximum number of casualties expects. In they have no means of replocativing their stocks before the following environments.

SECTION 11 - ORDINAICE STORES

Layout of beach and routherd areas

- 41 The importance of a pre-knowledge of tenniles to be catered for and the allotment of muitable areas, which and always be capable of expansion, cannot be ever-emphasized. I make particulars, though previously circulated, did a t always recan the fermation or unit concerned, and even when they did, were in some cases ignored.
- 42 Fearly all sites require consider ble real-making, clearance of obstruction and widening of entrances and critis. This just be done early and be reckoned as a necessary consistent.
- 43 Adequate signs must be propored beforehand and correctly posted. Chalked boards soon lose their value in dust. Signs must be capable of being read on either side as units coming in to collect require to know locations just as much as drivers delivering stores from the beaches.

Adequacy of Landing Reserves

It is too early yet to make any comments on the alequacy or otherwise of the Landing Reserve whole are supposed to sever one month's requirements. Generally speaking, types and tubes would appear to be on too low a scale. No vickers Machine Gun spares were scaled by Middle East, though there are many love important spares for these than the risks components which was included.

A Line of London

MOST SECRET

MOST SECRET

In reply, quote : 46434

Combined Operations Headquarters, 1A Richmond Terrace, WHITEHALL, S.W.1.

20th January, 1944.

C.O.H.Q. MONTHLY INFORMATION SUBSICIAL NO. 8 - PART II

Herewith PART II of Monthly Information Summary No. 8, PART I of which was dispatched yesterday.

(syd.) H. R. CARSON,
S/Ut., R.M.V.R.
Editor, Nonthly Information Suggests
for CHIEF OF COMBINED OPERATIONS

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COURTNED OFFRATIONS HEADQUARTER

MONTHLY INFORMATION SURGARY NO. 8

DECEMBER 1943

PART II - TRIALS AND EXPORTMONS

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NIL	
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SECTION A - SHIPS AND CRAFT.

1. Landing Ship Dock (L.S.D.)

- Bulletin 1/9.

Bulletin X/9, summarising reports of triels of the L.S.D., both in this country and in the U.S.A., has now been completed and is being distributed.

2. L.S.T. - Carriage and Launching of L.C.M. (3) - Trials.

Preliminary trials recently took place to determine whether L.C.M.(3) could be carried on the top deck of L.S.T. and launched over the side by means of listing the ship. A mock-up deck and "slipway" with the requisite list were erected on a dock wall and an L.C.M.(3) launched satisfactorily.

3. L.C.T.(VI)

- (Vide Appendix 'D' and 'E'.)

A Bulletin will be issued on the L.C.T.(VI) as soon as trials have been carried out in this country and more detailed information is available. The following outlines the description and purpose of the craft:-

- (a) <u>Description</u>: The L.C.T.(VI), which is now in general production in the U.S.A., embodies one basic difference from former types in that the tank deck runs the full length of the craft, providing access for vahicles over the stern as well as egress over the bow ramp. Apart from this, however, the craft is similar in size and performance to the L.C.T.(V), but compares unfavourably in that the shape of the deck, while similar in superficial area is far less convenient for the manoeuvring of large vehicles, particularly tanks.
- (b) <u>Use as Ferry</u>: The stern access is not intended for embarking, or disemberking vehicles on to a beach. It is designed to link with the ramp of an L.S.T. so that when the craft is operating as a ferry, vehicles can be taken on in the order and direction they are to be discharged. By this means it is intended to eliminate the problem of reversing vehicles on to the craft or endeavouring to turn them once embarked, thus facilitating and speeding up the process of unloading. Preliminary trials of this feature, in the U.S.A., confirm that it is satisfactory but some extra fittings are required, full particulars of which, however, have not yet reached the U.K.
- (c) Use as bridges. From the early design stages it has been visualised that a number of craft night be linked together to form a continuous bridge from ship to shore. No trials have yet been carried out to determine the feasability of this function, but indications are that it would be quite practicable if craft ware secured to moorings to keep them in line.

True !

This method is more effective than attempting to beke components, as if this is not carofully carried out denege will be done to insulation. Furthermore, the selt deposit still remains so that when the air is damp, fresh absorption of water by the sult occurs; and electrical breakdown is repeated.

A unit in the field will be able to get small quantities of methylated spirits and commercial ether, either by local purchase if at home stations, or from medical stores.

7. Waterproofing 'A' and 'B' Vehicles.

(a) 'A' Vehicles.

A list of 'A' Vehicle weding projects is given at Appendix "A" showing; -

- (i) Depth of wading required.
- (ii) Position to date.

(b) 'B' Vehicles.

In view of the change of wading cepths specification from 3' to 3'9" for European theatres and 4' for the Far East, plus 1'6" wave in each case, all 'B' vehicles are being re-waded. The time for which they must be capable of wading is six minutes in the case of the assault force and two minutes for follow up and build up formations. The D.M.E. has grouped this depth requirement into a general one of 4-ft., and Appendix "B" shows those vehicles so far tested and found capable of this increased depth. New cards headed "A.C. Card 2nd Edition" and to be included in series numbered 51-100 are in course of preparation.

8. Slipping of Rubber Tracked Tanks.

A tendency to slip when descending the ramp of L.C.T.(3) grounded aft on a flat beach, was observed during "one-off" woding trials of the Sherman V, fitted with rubber tracks. Investigations were accordingly initiated to assess the possibilities of such slipping being experienced in operations and to determine whether the development of some anti-slipping devices for fitment to the ramps was warranted.

Trials with Sherman tanks at various wading establishments were closely observed and special disembarkation trials with Sherman Tanks, fitted with both chevron and block type rubber tracks were carried out from L.C.T.(3). The latter trials were under static conditions, but with the ramp being continually watered and greased to simulate a 6 wade. In the static trials no slipping was encountered. In the other trials observed, one or two minor cases of slipping occurred but not to such a degree as to cause trouble. Although in two instances tanks "fell" from the top of the ramp, this was not the result of slipping but was due to the very steep angle of the ramp at the time.

From the results of these investigations in is constructed to the construction in the construction of the

- (iii) 12-strond Cordtex ropes will actuate pull mechanisms when fired up to 24* above trip wises tensioned in the normal manner.
- (e) Conclusions: From the above, it was considered that;-
 - (i) In view of the weight, bulk, effectiveness and prejection difficulties, 2-strand Cordex ropes are the most satisfactory charges.
 - (ii) Projected 2-strand Cordtex rope charges can only be relied on to operate trip wires when the latter are tensioned. If trip wires are said loosely on the ground and untensioned, contact is unlikely to be sufficient to guarantee cutting them, nor will the ignitors be actuated by pulling.
- 11. Non-metallic Bangelore Torpedo.

- Trials.

- (a) Object: Triels have recently been carried out with 2* bakelised cardboard tubes filled with '800' to see if it can clear a passage for infantry in wire obstucles of the standard British and German types without endangering the lives of troops on the flanks to the same extent as the normal metallic bangalore torpedces.
- (b) Results and Conclusions: The following conclusions were reached:-
 - (i) The 2° bakelised cardboard tubes will not stand up to any rough handling.
 - (ii) In no instance will they cut a clear gap through the wire.

The conclusion in (ii) confirms a recent theoretical analysis of the cutting effect of Bangalore torpedoes which shows that most of the effect is due to fragmentation of the metallic case and only a very small proportion due to blast.

- 12. Demolition of Pinnacle Rocks Underwater and Beach Boulders.
 Trials.
 - (a) Object: Experiments have been carried out to find the best way of demolishing rock pinnacles under water. As only one type of rock was attacked (a fine crystalline basalt which split along its bed planes), the results must be treated with considerable caution.
 - (b) Charges: The following charges were tried under about 4-ft. head of water:
 - (1) Standard Gemeral Wade charges.
 - (ii) General Wade cavity waterproofed.
 - (iii) Standard 5-1b. Beehive.
 - (iv) 5-lb. Beehive cavity waterproofed.
 - (v) Plastic charges of 868, 851 and P.R.2.

1.43 4

Page 8.

The trials revealed no appreciable difference between the two, although the phosphorus built up quicker and was slightly more persistent than the C.S.A. Owing to supply difficulties, however, the C.S.A. ismore easily obtainable than phosphorus.

The best results obtained were from a salvo of 20 rounds of C.S.A., which produced a screen 300 yards wide, 100 feet high and persisted for about 4 minutes.

SECTION F - TRANSPORT AND LANDING OF BEACH EQUIPMENT

19. N.L. Pontoon Equipment.

- Bulletin 1/15.

A Bullotin on the U.S. Naval Lighterage Equipment has been prepared describing briefly the components, method of assembly and its uses.

20. Embarkation of J.A.A. Artillery in L.C.M.(3). - Triels.

A trial was recently carried out to determine whether a 40 mm Bofers L A.A. Gun on Mk.II Platform towed by a Canadian Ford 3-ten 4 x 4 Gun tractor could be satisfactorily loaded into L.C.M.(3).

In order to fit the equipment in, it was necessary to remove "ront wheels of the gun, elevate the piece 16° and back the tractor until it touched the front jacking pillar. In this position, with rear wheels of gun touching the back of the hold, there was 6° all rance between front of tractor and the ramp door closed. Minimum clearance between tractor and craft side 8° eith r side.

Under the circumstances, it was concluded that the Equipment was NCT an operationally procticable load for L.C.M.(3). Loading overside from parent ship into L.C.M.(3) afloat is entirely out of the question.

21. Reder A.A. No. 3 Mk.II - Waterproofing and Disemberkation from L.C.T.

A practicable method of waterproofing has been devised to enable this equipment to wade to a depth of 4-ft. with 18° surf. The method of waterproofing consists essentially of covaring the bottom and lower sides of the Trailer with Admiralty Cloth D, which is comented to the sides of the cabin. The deers and various crevices are sealed with "pressure plastic".

This work takes three men at least two days, and requires

During disease for its in fould that the read its feet of the gradity of the grad

Page 9.

22. Waterborne Supply Carrier

- Appendix 'D'

Development is taking place in the U.S.A. of two forms of Materborne Supply Carriers which may have application for specific operations:

(a) Rigid Type: Of the rigid types, the one showing the most promise is constructed of plywood, shaped, and fitted with a large hatch opening held in place by draw bolts. The gasketing material is a mastic seam composition applied each time the hatch is closed. The container has the following weights:

Complete empty container 150 lbs. Recommended load 450 lbs. Maximum capacity load 1,000 lbs.

(b) Pneumatic Type: The 5-man reconnaissance boat fitted with a shrouding for watertightness and provided with lifting straps has so far proved the most satisfactory pneumatic type of supply carrier during trials. The complete unit weighs 110 lbs., and has a carrying capacity not to exceed 1,000 lbs. The deflated size of the unit is 18* x 18* x 30*.

The rigid type can be packed and stored in the hold of a ship, at the port of emberkation, and when finally brought to its destination it can be carried up the beach. On the other hand, the pneumatic type cannot be packed for use until shortly before the operation is started. It does not lend itself to carrying by manpower on the beach, but has the advantage of conserving the maximum of shipping space.

It is understood that development is continuing but designs have not been finalised.

SECTION G - EQUIPMENT FOR SPECIAL OPERATIONS

NIL

SECTION H - MISCELLANTOUS

23. Service Respirator - A possible use as Life Saving Device - Bullotin X/11.

a suggestion has been submitted for the possible use of the Service Respirator as a life-saving device involving the detechment of the canister and substitution of a cork float.

By this means it was claimed that with the end of the connecting table being supported on the surface of the mater to ensure a constant supply of air, an indifferent symmetry maring a constant supply of air, an indifferent symmetry maring a constant supply of air, an indifferent symmetry maring a constant supply of air, an indifferent symmetry maring a constant supply of air, an indifferent symmetry maring a constant symmetry and the symmetry of the float so is secured.

新原料

1

APPRODUCTA!

LIGIN

- A Reject not commenced.
- B Single vehicle tests completed dreft materproofing instructions compiled.
- G Large scale trials completed. Instructional manuals not yet evallable.
- D Thterproofing instructional manuals completed.
- E Project campalled.
- S (After weding depth) Special requirement to enable tanks to remain and fire ball down in the maximum depth of water for a maximum period.

(a) TATES

	Depth	
Churchill, I.II, III and IV	in.	3.
•	śr.	D
•	áft. S.	3
Correlill 3" 20 cm.	7 21.	Ð
Growell Contour.	3 : t. 5 : t.	3
•	š ti.	C
Grunader	3 54.	פ
ATE 1/Los	3 ft. 6 ft.	3
Meltida 345	3 ft.	Đ
1	3 fr. 5 fr.	3
3em 2.		פ
•	3 ft. 6 ft.	פ
Some HI HAN	6 ft.	Ā
Sharmer III Mar2		7
•	īs. ēst.	์ อ
*	óft. S.	č
Simman T Mak	3-24	2
•	6 ft	็อ
•	6 ft. S.	č
Stewart Talentine 2545 and 9	4.6.	5
	3 ft.	Đ
•	6 ft.	À
	5 1 6.	•
(b) INIS CP. CIL COL M.		
Sherring OP	6 ft.	c
Grant/Los CIL	6 ft.	A.
Garcidl Cal.	3 ft.	D
•	6 ft.	C
Moltida CHL	3 ft.	D
Crameder AL Mr. I.	3 24.	В
•	5 ft.	Ā
Crusader AA Mc.II	3 ft.	n B
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/(c) SP REILLING...

APPLIED X 12

THE VEHICLES WHICH HAVE BEIN TREET O AND TOURD

SATISFACTORY FOR LOTT, WADDING FOR 6 HIMSTED.

Tractor H.A. 4 x 4 A.E.G. Fatador.

Lorry 3-ton 4 x 2 Austin K.3.

Lorry 3-ton 4 x 4 Anti-Tank Fortes Austin.

Ambulance 2-ton 4 x 2 Austin F.2.

Truck 15-cut. 4 x 2 G.S. Budford (including water and fitted wireless.)

Lorry 3-ton 4 x 2 G.S. Bedford OY. Lorry 3-ton 4 x 4 G.S. Bedford Q.L. Lorry 30-cwt. 4 x 2 Slave Battery Bedford OX. Larry 3-ton 4 x 2 G.3. Cammor Q.4. Lorry 3-ton 4 x 2 Chevrolet. Lorry 6-ton 4 x 2 Donnis. Tank Transporter 20-ton 6 x 4 - 4 Federal. Lorry 3-ton 4 x 4 Canadian Ford. Truck 15-cvt 4 x 2 Ford NOT2. Lorry 3-ton 4 x 4 Ford WOT6. Lorry 15-cwt. 4 x 2 Guy #.H. Car Light Recce 4 x 4 Humber Mark III. Car Heavy Utility 4 x 4 Humber. B/D 3-ton 6 x 4 Leyland. m Heavy B/D 15 owt 6 x 4 Mack. Truck 15-cwt 4 x 2 Morris Compressor. Tractor F/A 4 x 4 Morris Quad C8. Lorry 30-cut 6 x 4 Morris C.D. Ber Light Rocco 4 x 4 Morris Mk.II.

Heavy B/D 6 x 4 Scannell.

Lorry 3-ton 6 x 4 Thornycroft FBL

Truck Personnel 15-cvt 4 x 4 white A3Al

Truck 15-cvt Half Truck white M14.

Truck 5-cvt 4 x 4 whilys Jeop.

m Suitable for 2 minutes wading only.

B. VEHICLE TRAILERS. ETC.

Generating Set Lister 15.K.V.A. Fire Pump Scammell. Fire Pump Dennis.

APPENDIX C

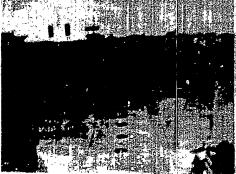
FOR WHICH VATIREPROCEDY INSTRUCTIONS HAVE BEEN PROPARED, OR ARE IT GO SE OF PROCEDURATION.

- 1. Ladar A .. No. 1 :k, I
- 2. Radar A.A. Lo. 3 Pk.TI.
- 3. Rader A.A. no. 4 Mk.II
- 4. Signals Equipment, f relate Sets, etc., all types.
 5. Wireless sets in A.F.Vs.
- 6. Detectors Mine Polish, Ma. 7.
- 7. Bins Store Type. S and Y
- 8. Waterproofing voling to is including use of Crepe-Sisal sheets.
- 9. Guns and ammunition and man. Containers, all types.

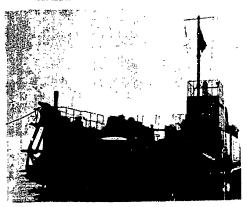
ARRIVE NEWS



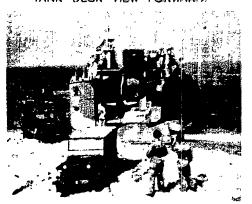
TANK DECK VIEW AFT.



TANK DECK VIEW FORWARD

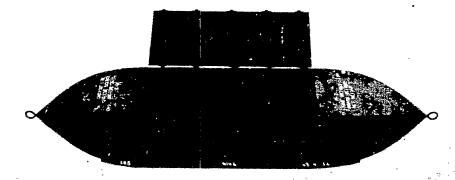


STERN VIEW.



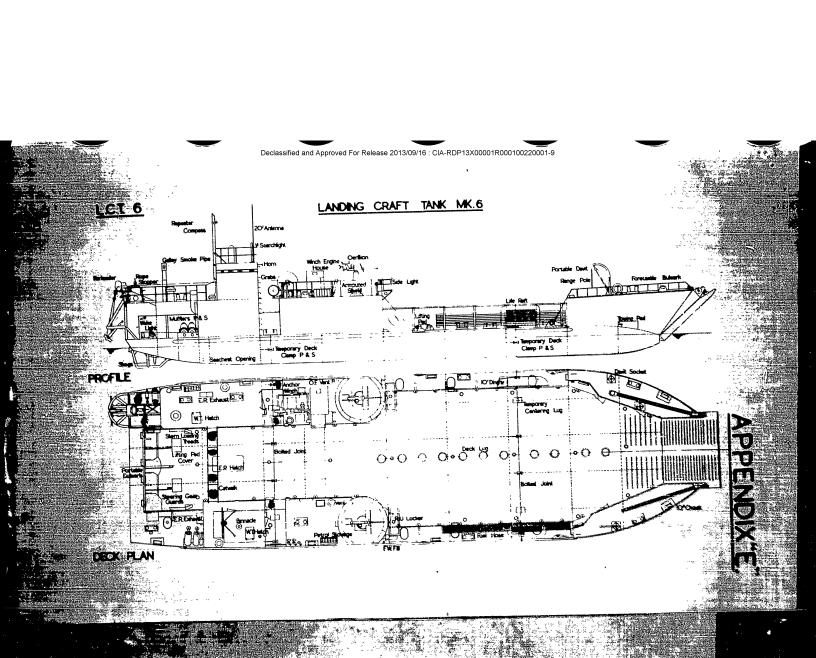
FITTED WITH UPPER DECK.

L. C. T. VI



RIGID TYPE PLYWOOD SUPPLY CARRIER.





Declassified and Approved For Release 2013/09/16 CIA-RDP13X00001R000100220001-9 6-0 Hinged Cap. Brackets for Hose. Hose not shown Hose Connect ons Hollow Steel Bar END ELEVATION. SIDE ELEVATION ON ROLLER RUNWAY
PREPARATORY TO LAUNCHING FROM L.C.T.V ABOUT TO BE TOWED ACROSS BEACH 620 GALLON BULK PETROL CONTAINER. PLAN

Declassified and Approved For Release 2013/09/16 : CIA-RDP13X00001R000100220001-9 CONC I/11 A Possible Use of the Bervice Respirator as a Life-Seeing Day of TATY Lesson's Learned from the Guadaleanal Operation Conc I/19 The Capture of Termolikouting Sheet originator... Dete Addresses. Date Regid Bubject. Indicate action desired or taken Date Initials Room To Fwd 'd Rec'd No. Q Maritime Unit Q 2/8 48 12/1 Naval Command South Adm. Mrs. O'Donnell

Declassified and Approved For Release 2013/09/16 CIA-RDP13X00001R000100220001-9

WAN DEPARTMENT
WAR DEPARTMENT
WASHINGTON

MID 311.19

24 January 1944

Director,
Office of Strategic Services
25th and E Street, N. W.
Washington, D. C.

Dear Sir:

Enclosed is one copy each of C.O.H.Q.

Bulletin X/11, Y/19 and Y/17 received from Captain

Tollemache, Offices of the Combined Chiefs of Staff.

For the Deputy for Administration, G-2:

R. N. GREATHEAD, Jr.
Major Afr Corps
Commonwealth Section
Foreign Lisison Branch

Enclosures:

3 COHQ Bulletins
Receipt for return to Capt. Tollemache
Receipt for return to Foreign Liaison Branch (dup).



PRIZES MOST PROPER AND SECRET

BRITISH MOST SECRET AND SECRET

MID 311,19

24 January 1344

Director, Oction of Strategic Services 25th and E Street, N. W. Hashington, D. C.

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3 COMQ Bulletins
Rescipt for return to Capt. Tollamphe
Rescipt for return to Foreign Elaison Branch (dup).

THE PARTY LANGE AND STATES

LICET SECTION

BRITISH JOINT STAFF MISSION OFFICES OF THE COMBINED CHIEFS OF STAFF WASHINGTON

19th Jensery, 1944.

Commanding General, Office of Strategic Services, Washington, D.C.

With the compliments of

Captain H.D. Tollemache, R.N.,

Chief of Combined Operations Representative.

RESTRICTED:

C.O.H.Q. BULLETIN NO. X/11.

A POSSIBLE USE OF THE SERVICE RESERVATOR AS A LIFE-SAVING DEVICE.

---000000000---

Issued from: -

COMBINED OPERATIONS HEAD UARTERS, la Richmond Terrace, Whitehall, S.W.l.

Def: C.T. 1113/43

December: 1943.

7.44

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        Captain J.4.
  Flag Officer, Force 'S'.
        Captain Gp. B.1.
        Captain Gp. S.2.
        Captain Gp. S.3.
  Captain Gp. L.1.
```

/cont...

A POSIDE USE OF THE SERVICE RESTRICTE AS A CALL SAVING LEVICE.

1. Object of Trials.

A report was received from the Mediterranean stating that the standard Service Respirator with the long tube attachment as issued to Naval and A.A. personnel, could, with suitable modifications, be used as a life saving device. This modification consisted of detaching the tube from the container and bringing it up through a cork float. The general arrangement is shown in Diagram 1. It was claimed that this simple device was of great value to indifferent and non-swimmers, and enabled them to stay affort for some considerable time. The U.S. Army respirator could also be used for this purpose.

Tests were accordingly carried out in this Country to vorify this or otherwise.

2. Summary of Results Obtained.

- (i) In its simple form as illustrated in Diagram 1, the apparatus appears to be of little use.
- (ii) A modified form has been tested which is satisfactory. This is shown in Diagram 2.

3. Recommendations.

- (a) should it be desired to make use of this device, it is recommended that further modifications be carried but as follows :-
 - (i) The mozzle should be confined to incorporate a sample water fray.
 - (11) If the same in the house in abandant while will as
- (111) Alternatively, incorporation of the standard inlet valve and seating in the open end of the tube might prove effective and prevent inhaling spent air.
 - (b) Owing to the busyancy of the tube and of the float there is some danger, curring the initial plunge, or the face-piece being torm off the wearer. A drill must be evolved to prevent this. It is suggested that gripping the hose under the armpit (like bagpipes) and clasping the float to the sheat until the wearer floats to the surface might effect this. If the wearer takes a deep breath before closing the stop, the air enclosed in the apparatus and his own lungs should last sufficient time for him to reach the surface without under discomfort. This also would keep his lungs free from water and enable normal breathing to be resumed immediately the stop-tap is or

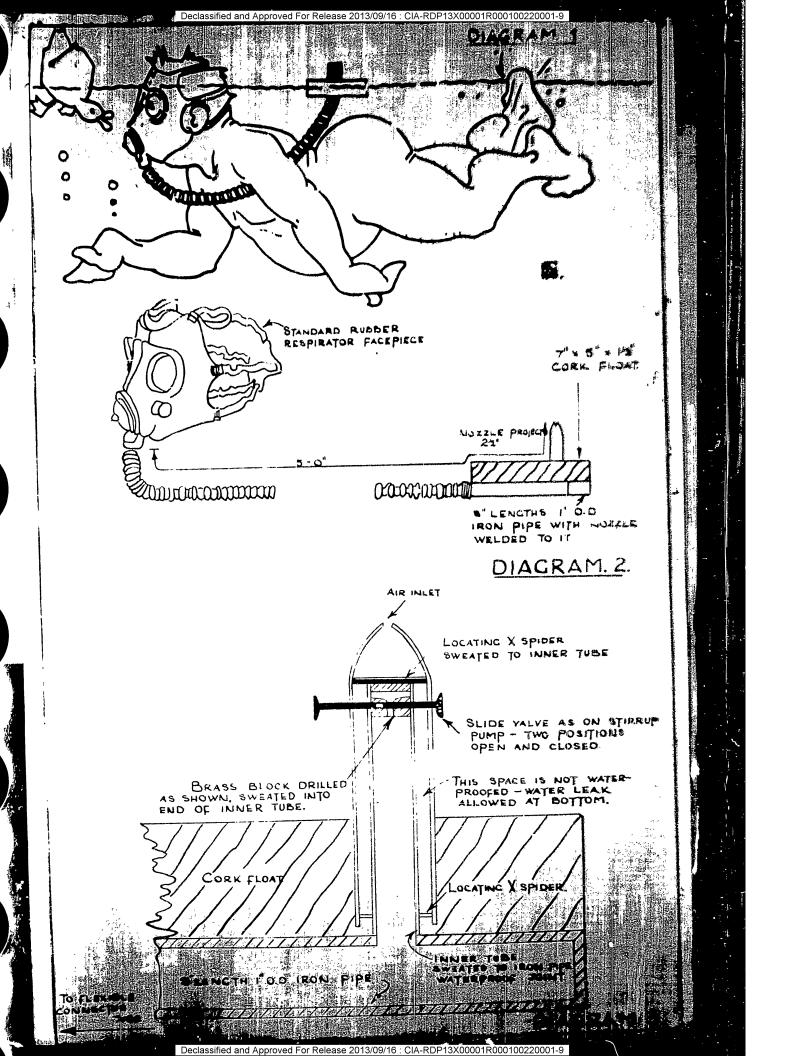
SECTION II.

Detailed report on trials carried out,

1. Apparatus.

Two sets of apparatus were constructed consisting of a standard facepiece and harness, flexible tube connector and a metal nozzle carried on a cork float 7 x 5 x 11. In one set the combined flexible connector and nozzle had an overall length of 3. In the second, the overall length west

2. Buyanor/.



GRANGE STREET

Copy No.

C.O.H.O. DULLETIN No. Y/17

LESSONS LEARNED FROM THE GUADALCANAL OFFICETION 1942.

Contents SECTION A Common Problems Co-operation Transport Training Supply Supply Training SECTION D: CONCLUSIONS Always Practise Landings Six Wooks at Least for Planning Wood-out Incapable Officers Inadequate Physical Training Personnel for Ship-to-Shore Movement Rations and Assumition Protocting Supply Dumps Priority for Defensive Material Value of amphibian Tractor Eravel Light in the Jungle SECTION C: COMMENTS BY OFFICERS OF COHO Lessons Repeated Q-Planning Viow

Tasued from -

Combined Operations Headquarters, 14 Richard Terracy, Whiteheld, Contest, P.W. L.

Page 7.

SEATE PURE DE LE COMO CON LA LA COMO CON LA COMO CON CONTROL C

16. L.C.T. - Cuides for Hight Londing and Unicedian.

(To be subject of a Bulletin)

In order to assist drivers of M.T. and A.F.V. (and in particular Churchills equipped for 6-ft. wading) operating from L.C.T. at night, various systems have been tried, to mark out the narrow entrance at the ramp. These included marking the centre line of approach with reflector stude, white and luminous paint, flexible tank wireless asrials, lead weighted canvar strips, and also by means of a system of low powered diffused lighting.

Although the diffused lighting system appeared most satisfactory, this has not been recommended, primarily on account of the very considerable alterations and additions entailed. The alternative recommendations consist of:-

- (a) The painting of a 6" wide white strip down the centre of the tank space of all craft.
- (b) The provision to all craft of two canvas strips
 6" wide and 50-ft. in length, made up of three
 layers of canvas sewn together, painted white and
 weighted with lead strips every 3"; to assist
 tanks whose driving position is off the centre line.

17. L.S.T., Discharge of Stores.

Considerable operational experience has been obtained on discharge of stores from L.C.T. by means of D.U.K.W. when the stores are stowed in the lower deck. By this means it is possible to load 2 D.U.K.Ws. at a time.

Trials are about to take place of discharge of stores from the upper deck of the L.S.T., the tank deck being left clear for vehicles. It is hoped that by using the lift and chutes from the after hatch to be able to load 4 D.U.K.Wallimultaneously inside the tank deck, thereby doubling the rate of discharge.

18. Telecommunications Equipment Servicing Car.

assified and Approved For Release 2013/09/16

It is essential that this vehicle, a Humber 4 x 2 shooting brake, be lauded dryshod. Any attempt at sealing the body is considered impracticable as flotation would cause wheel spin, in addition to which it would be impossible to waterproof the electrical equipment itself.

Off ashore on top of a 5-tos Zagle (Saow Plough) Trailer, which (sa be town by any suitable saterproofed Tractor of Prime Mover.

Common Problems

- 13. Co-operation. Essential tenswork between transport and landing team commanders can be obtained only by operational provide. Each state presents an individual problem due to variations in structure and boats but, given opportunity, the landing team will adopt itself readily to the ship. For example at Wellington it was possible to ordere and But, 5th Marines in USS Neville which had embarked the same battalion for training on the Atlantic Coast on previous occasions. Embarkation, stake form and subsequent operations proceeded with the utmost order and test atch. Other battalions assigned to strange ships required twice the Neville's period for embarkation and loading and throughout the operation never acquired the Neville's smoothness and teamwork. The only difference was familiarity with the ship.
- 14. Transport Training. Transports as well as Marines require trained ing and practice in the actual functions of embarkation, ship to shore acreed ment and the landing of supplies. This cannot be gained in administrative carrying operations. For example, in the Melbourne area, HMAS Manacra was assigned this division as a training transport. She repeated a series of elementary landing exercises seven times in ten weeks each time embarking a different landing team of the davision. Strange to her work, she required 21 hours to put ashore the landing team supplies on the first exercise. The time was reduced steadily with each successive attempt until on the final exercise she landed the same quantity of supply in 6 hours. Improvement in embarkation and boot operations was equally remarkable.

Supply.

- 15. The supply problem requires training and planning by the landing force, the transport force and the amphibious force compander. Independent efforts will lead only to misunderstanding. The matter is of vital importance and it is unfortunate that there has arisen such a confusion of thought with respect to it on the part of those who have had only limited connection with the actual conject of training and operations. The great problem is of course the quantity of supply to be taken; this cannot be fixed and absolute but must be determined by a careful balance of factors entering into each specific operation.
- 16. Supply Training. The quantity of supply which can be landed and dispersed within a given period of time and employing a given amount of labour can be doubled or trebled if transport crows and shore parties are trained in their duties.
- 17. This division embarked for the Guadaleanal operation only those supplies utterly necessary to live and to fight. Baggage, bedding, seabags, extra clothing, tentage and camp equipment were entirely eliminated. Fost exchange supplies were limited to soap, cigarettes and razor blades. Amunition was reduced from 20 units to ten, rations from 90 to 60 lays. No sacrifice was spared which would increase the initial combat efficiency and landing rate of the division yet solely by reason of the shortage of shipping space much valuable equipment had to be left behind.
- 18. In future operations the division will continue this policy of reduction and carry it still father as experience teaches us to distinguish between the essential, and non-essential. But it must be pointed out that troops cannot be expected to exist indefinitely on short rations and utterly devoid of the necessities of life and some provision for the minimum comfort and standards of decency.
- 19. In planning future operations we must decide at the outset: Shall the imming force be self sustaining as initially embarked or shall it every only a best minimum to be supplemented later? This is a basic decision for the amphibious force; but one in which the landing force is also vitably

the Control of Protors whe

which continued throughout the stire period of our occupation of Guedalogical.

A recommended future procedure 1-

- (a) Designation of an aerial photography unit to take photographs in accordance with exact landing bree requirements.
- (b) Direct liaison between landing force and designated the tographic unit.
- (c) Photography unit to supply negatives and six prints of every thotograph taken and to furnish mosaics, including copying common negatives, of all mosaics so provided.
- (d) Landing force photolitho unit to reproduce photographs and mosaics in quantity for unit distribution.
- 46. The presence of a limited number of qualified interpreters to translate enemy documents and examine prisoners of war was of great value in ascertaining enemy intentions and in studying his habits of combat.

Personnel for Ship-to-Shore Movement.

47. The landing re-emphasised the vital nature of the logistical problem

presented by the ship-to-shore movement of supplies.

As had been forescen, the Pioneer Dattalion proved inadequate in size to cope with the tremendous burden placed upon it. Adequate supplementary labour must be provided. It is considered that there must be available to the shore party on the landing beach additional personnel in the proportion of at least 100 men for each vessel discharging cargo across the beach.

Rations and Assumition.

- 48. For this operation 60 days' supply and 10 units of fire were embarked. While these amounts represented rejuctions of 33 per cent of supplies and 50 per cent of supplies and 50 per cent of supplies and 20 units they nevertheless proved somewhat excessive from the point of view of immediate requirements. Only a fraction of those supplies were actually landed; that this fraction proved inadequate in no way detracts from the conclusion that amounts actually embarked were somewhat excessive.
 - 1 49. In view of the foregoing, the following recommendations are submitted:
 - (a) That not to exceed thirty days' supply, 10 units of fire, and 50 days' rations be embarked.
 - (b) That only half this material be landed initially and that the transports clear the area on D plus 1 day.
 - (c) That AKAs carrying the remainder of the supplies be withheld from the danger area initially and that, beginning on D plus 2 day, they be committed singly or in pairs at regular intervals to permit orderly unlosting and to reduce the target offered to hostile aircraft.
- 50. A determined low-level or dive-bombing attack on the landing beach may prove ruinous unless supplies are promptly cleared to dispersed dump areas. Likewise great attention rust be paid to the rapid datablishment of a strong anti-aircraft defence of the landing beach.
 - 51 No suitles should be packed in pasteboard containors

Protecting Spreig Depress.

graphic assistance from rear areas.

61. All types of Marine Corps combat transportation reved highly satisfactory. The superiority of our 4-wheel drive equipment over the ?- wheel drive type of Japanese truck was most apparent.

Travel Light in the Jungle.

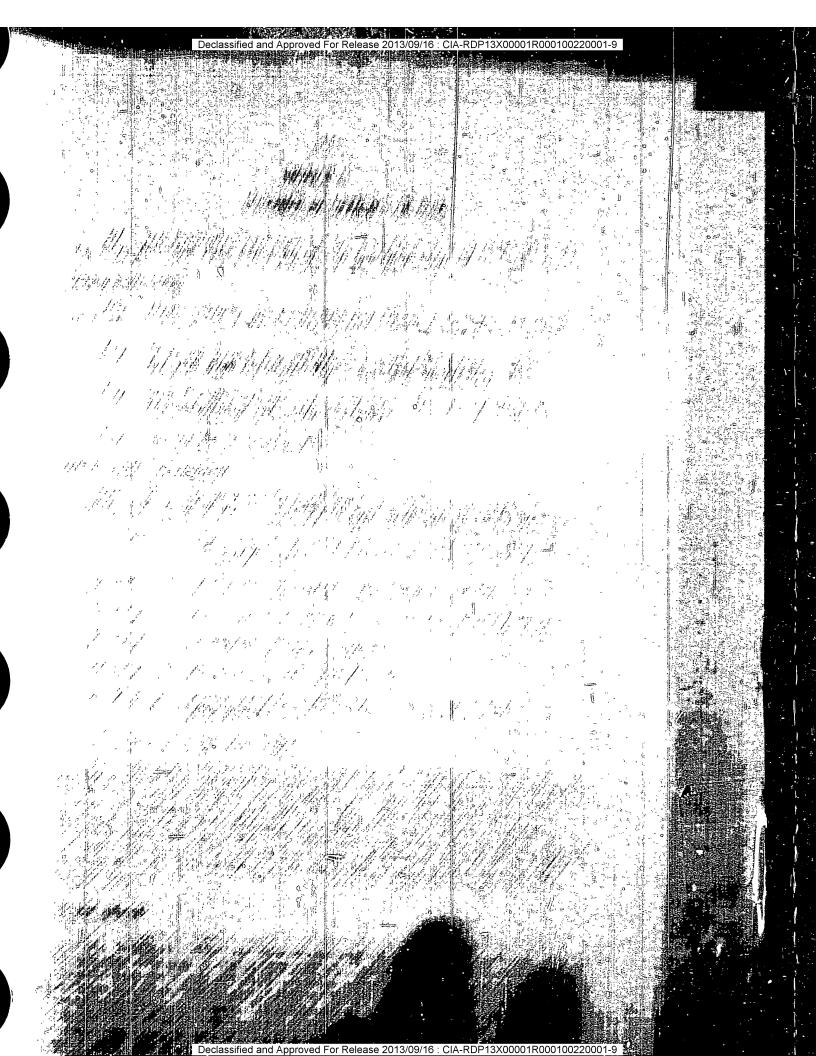
- 62. Arms and equipment, while satisfactory for landing operations, are in general too heavy for jungle operations. Troops must be taught to strip down to bare essentials and travel on light rations; patrols must be specially armed and equipped in accordance with the terrain and type of resistance to be encountered. Specific recommendations are:
 - (a) Carry only 40-60 reants for rifleman with proportionate reductions for the LAR and light machine gun.
 - (b) A limited system of selective or optional armament permitting the following substitutions for special occasions:
 - (i) Light mehine puns for heavy meaning runs.

(ii) 60mm mortars for 81mm mortars.

- (iii) Increased number of submachine guns and cart hos,
- required by close terrain.
 (iv) Sufficient machetes to issue one per man when required.
- (c) The "C" ration is to bulky and the "D" ration unsatisfactory for extended patrols. (See footnote D). Troops must be trained to live for considerable periods or individually prepared rations of rice, become raisins and deffect.
- (d) This ration should be varied and supplemented by airplane drops of cannot fruit and "C" ration at intervals of four or five days.
- (e) Two conteens are necessary.
- (f) Blankets are not required in tropics; en should carry only the shelter helf or poncho.
- (5) Nake preparations in advance for simpleme drops of ammunition and medical supplies in the event of a serious action.
- (h) Organise natives as carrying parties as soon as possible after landing.

The 105mm Gun.

- 63. Prior to the Solomons operation some doult was entertained as to the practicability of employing 105mm artillery in juncte varfare in view of its lack of mobility. It is now considered that the weapon has a definite place in future operations in the Facific. Since large-scale operations will almost invariably involve the seizure or defence of installations on or near the sea, ramp-boats and amphibian tractors can be employed to move artillery. In this connection, it should be noted that the coastal terrain of the Pacific islands often includes areas of flat ground permitting free movement of guns and normal prime movers. The superior effectiveness of this weapon and its desirable ballistic characteristics were clearly demonstrated on the night of 13 September. It is considered highly desirable that these advantages be retained by continuing to include this type of artillery in all large operations.
- 64. During the entire Guadalcanal operation the use of attached landing craft for tactical purposes was, of necessity, subcrdinated to the administrative employment in the unloading of supply vessels. Likewice

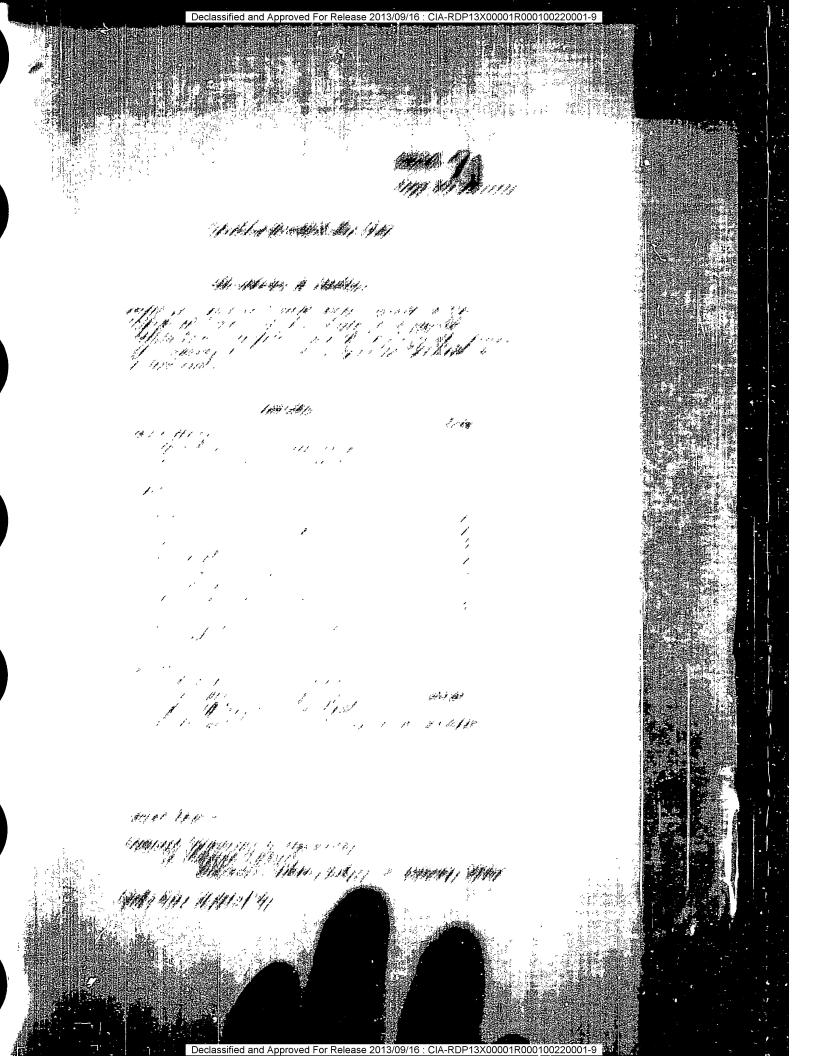


- (d) There was a lack of M.T. in early stages partly because a large propertion of it had had to be left in New Zosland, and partly through lack of repair facilities.
- (e) The general conclusion seemed to be that the stores emberked (of which only a small part was actually landed) were too many for immediate requirements. It is recommended that has stores should be landed in initial stages and that arrival of subsequent store carrying ships should be "stage-ored".

Issued from -

Combined Operations Healquarters, 1A, Richmond Torrece, Whitehall, LONDON S.7.1.

Ref: CR/10,243/43. Doc ember 1943.



Appended at A and B are the Plans and Communication Orders for both operations.

REPORT

by Flotille Officer, 22nd LH(L) Flotilla

6. At 1130 on October 2, 1943, craft of the Asseult force slipped their moorings in Manfredonia basin, took in tow their respective ICA and by 1200 column was under way at a speed of advance of 62 knets boun. for the beach 1 mile west of Termoli on the Adriatic Coast of Italy. The Naval forces comprised :-

4 LCI(L)		171, 179, 181, 136. of the 59th Fl ville.
7 ICA		
1 LCS	• • • • • • • • •	38.

- The SS Brigade was composed of Nc. 3 Commando, No. 40 RM Commando and Special Raiding Squadron. No. 3 Cormando and Brigade HQ with Col. J. Durnford-Slater, DSO, were enbarked in LCI(L) 171, the ship carrying the Durnford-Slater, Lt.Cdr. F.E.V. Lemmort, RNVR. The SRS (Major P. Senior Naval Officer, Lt.Cdr. F.E.V. Lemmort, RNVR. The SRS (Major P. Senior Naval Officer) 1707(1) 470 Mayne, DSO) was in LCI(L) 179 and the 40 RM Commando (Col. J.C. Manners RM) was split up between LCI(L) 131 and 136.
- Previous to the operation the 4 LCI(L) had embarked the SS Brigade at Catania on September 27 (after operating with them on the west coast of Italy), sailing at 1300 for Taranto where they arrived on September 28 at 1230. Ships were sailed by Flag Officer, Taranto, on September 29 at 0645 and arrived Bari at 1205 on September 30 (having sheltered in Brindisi outer harbour overnight). At 1300 ships sailed for Manfredonia, barthing at 1820 on same day. Nine ICA and one ICS of 59th Flotilla were carried from Catania, to Brindisi by HAS "PRINCE LIBERT" and HAS "BEATRIX" From Brindisi they were towed by 3 LCI(L) to Manfredonia arriving early on Outobear 1.

speed in Planning.

The general outline of Cabura of tour and por the general outline of Shirt of Load by Cola Durnford-Slang Son of tom and out

in spite of a nesty lop the third Commando, which was to carry out the initial assault, embarked in a swift and businesslike manner. Collimited Slater intimated that he preferred to be landed nearer to town of Termoli than further west of landing point, which had been plasmed for mile west of town. This was passed by Schior Officer to Lieutenent Learment together with estimated course 178 degrees and distance 1 3/4 miles. The first 4 ICA lay off with their Flotilla Officer until the other 3 ICA had come alongside to embark balance of 3 Commando.

- 17. At C214 ICA hit beach, 3/4 mile west of Termili, one minute before H hour. At O216 the prearranged signal "G" was flashed to call in ICI(L). "G" was intended also to mark spot where ICI(L) 171 was to beach with 179 to starboard and 136 and 181 to port. Bearing of signal "G" was 178 degrees. Thus the assault had been landed in exactly the right place and at the right time. A certain pride in this achievement may be justified, especially in view of grounding and the appalling weather conditions preveil—ing during the last crucial hour.
- 18. At 0233 LCI(L) beached. It was a false beach, as had been foreseen, and two LCA were in attendance on each LCI(L). The SRS in 179 and the balance of 3rd Commando with stores in 171 got ashore dryshod in LCA, but for some reason of unit sequence the 40 RM Commando in 136 and 181 did not wish to use their attendant LCA, making a very wet landing.

Enemy Completely Surprised

- 19. The landing had been a complete surprise. This was later confirmed by pristners taken. Furthermore, documents seized at the Paratroop HQ showed the Germans in four strong positions from the town of Termoli, along the lateral and, facing SE. Apparently the idea of a landing west of Termoli had never entered their calculations.
- 20. At 0315 LCI(L) 171 unbeached in order to carry out a recommaissance of Termoli, while all other craft were ordered to remain unchared offshore. As we approached the torm, bursts of Tommy Jun fire rippel out, rapidly increasing in intensity. Opposite the port 171 came under machine Jun fire from vicinity of esplanade; though there was strong temptation to return this fire with ourlikon, fire was withheld as for the most part the enemy fire was going overhead and there was danger of inflicting casualties on the Commandos working their way across town. For a quarter of an hour 171 steamed off the port, drawing the fire and tempting enemy machine gum posts to give away their positions to the Commandos. LCI(L) 171 then withdrew and anchored off till morning.
- 21. At 0645 LCI(L) 171 entered the Port on call from shore and Senior Officer went ashore to look over the Signal Station established by Lieutenant Hylton, RNVR, who had landed with LO Commando. It had been felt in the planning that establishment of a Signal Station would be a useful link between ships and SS Brigade HQ; this was a new departure and during the next days proved invaluable. At 1045 news come through of an impending counter attack by the enemy and SO returned on board 171, after calling into the port 179 to take on 61 German prisoners, mainly Paratroops and Pioneer Corps. 181 and 136 were sailed for Manfredonia for balance of stores and ammunition of Brigade and to tow up the 2 ICA left behind.
- 22. At 1345 sounds of heavy fighting broke out beyond the town and ICI(E) and ICA were shifted to anchorage 3 miles off.

A STATE OF THE PARTY OF

71 (7) (7) (7) (7) (7) Singled out for accide by 5 tw 1907 was a singled out for acciding the same of the same of

of landing to the final results schleved. Desides ever 150 pris ners taken, heavy essualties had been inflicted on the energy and a strongly hold position turned, plantng an important lateral in our hands. A plus for additional air cover was again out forward and this was practised (and it is to be received this was forthemater in greet strongth from the following morning muards). During the conference require case in of a domain counter attack developing at my the count from At Mornement and Sand 3 Commands, which had just been cultived, more regulared to be M. ocastal position. As those troops were wary, Bent r Officer made a proposal that his LOI(L) should carry out a aless range leader heat if the Montenero, civing the impression of a land in which which cause a diversion sufficient to relieve the pressure. The lateral was not with some end enthusiasm and it was agreed that 2000 and be a sufficience was agreed that forward posts and battarion were notified and rain by.

A brief directive on . Traym in 'y 30 for this diversi nory operation, "Folycon" (ref. L andix ") and t 1730 a conference of Consum ating Officiars was will in gradient 1/4. The content outline of the LYCOE was or the habital - 171, 1/9, 181 and 136 at atoma to se, ward from Tomoli to avoid detection, then turn in towards the const to within half a mile, 5 onlies this si's of all Montenero, and in line should to stome parallel for 9 or 10 dantes firing bron bloss in short rapid barsts f writtens, rock on lowin and int out in tod position f station a village. At the mane time LCI 136 was to lay a smake seroes across the turest of R/T hrono word to a exchence to otween shifts to take a featilist n Bost and dost of all ontonore. On the coope fir, ships were to turn in succession 90 logram to start ori (no ver) ont MI(L) 136 would it mt 2 no. k. Ile to which out brift out 'I intended in the EME tide, the sake boln taken dream and disprovering y the I drooms

Divoral a Distracts 40007

- thun expected, like a territor of fective until 202%. Otherwise "pC.Y. I" thun expected, like a territor of fective until 202%. Otherwise "pC.Y. I" must be useful a feature of the first o dropped. k/T communication, resid tain exchanges between ships at 2040 dim. re-erranged lines. dithout incluent ships enchored 5 miles SE of Termeli. It is not known whether one but a was inflicted on the enony, but 80 was informed inter that provere cours on that the Brigade but a quiet night.
 - At 0645, retotor 5, retxed force of FT and ME 109 came in at a low level over the ort obviously lookin for the ICI(L). Then these targets were not eveilable they and for the Lan lying offshore. Bombs did no damage other than shake up two ereft, and one FW flying about 100 feet above water was hit by the concentr ted fire of the ICA so that its ongine caught fire and it crashed inland, just over the cliff, this being confirmed by Army sources. This was a gallant show, in keeping with the fine appressive spirit of the assault Force.
 - At 1030 the ICI(L), anchored again just off Termoli, were shelled by 105 mm and were forced rapidly to shift further off. At 1105 these sums again ranged on them and they were moved to below Campomarina, about 5 miles off. Howover, at 1145 they were heavily shelled again, and 50 moved ships to anchorage off Travatine Tower, about 10 miles away. The ICA were protected where they lev close inshere by a high class and they remained. This sholling was puzzking in view of known onemy dispositions of periods evening, after a time it became dir being, as our forward bettenics were no longer (Lime) and there appeared to be a movement of bettenics were no longer (Lime) and there appeared to be a movement of bettenics were no longer (Lime) and there appeared to be a movement of bettenics in the velloy time side of formell lateral. Army W/T set which we had on most we not period on the description of the longer was not period on the description of the longer was not period on the description.

/MG. Though the situation was being rapidly consolidated there was still some florce dive bombin, and at 1652 five FW came over, giving the numers of 171 the chance of splendid "kill". Three attacked some L.C.I.(L) which had just come up in connection with the "mystery ships" and for some reason fire and not opened on them. Two came for 171 but were met by accurate fire, irolled their bombs willly and banked steeply, thereby exposing their undersides. The second of the two was repeatedly hit, caucht fire and crashed in flames about I mile inland in the valley west of Campomarina.

All Done in Four Days.

- Al. By the evening of October 6 operation DEVON may be said to mave ended, with Termoli firmly in our hands and the unity particle several miles beyond. The S.S. Britale had been with From from the line and at 2200 L.C.I.(L) ddl umbarked 3 Commando for Molfetta.
- al. On Metober 11 Sunier Officer hal the noncur of metin Foural ontwomery. At 1930 that evening L.C.I.17) mearly the SRS for olfetta, a October 15 L.C.I.1/1 and 161 embark. 40 force of for folfetta, returned to Termoli and an October 16 tower lamb to Farlett 5 Least requiring regains, the others proceeding in company under their sam power. L. .3. 38 hal been required sufficiently to be kept after the purpose force arrive at Barletta 0505 atober 17.
- 43. Apart from superficiel bunde which was rejaired, torse suffered no loss, not were there any insualties apart from minor splinter our L.

loccus in money direct fit inflicate, by the " on many i-

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	4		

APPENDIX A

PLAN OF OPERATION "DEVON".

OBJECT :

To make an assault landing one mile west of Tommoli, capture the Town and Port and join hands with the 78th Division advancing from SE.

FORCES EMPLOYED :

 Vaval
 4 L.C.I.(L)
 171, 179, 181, 136.

 7 L.C.A.
 59th Flotilla (Licutement)

D.K.L. Loarwort, D.S.C., R.N.)

1 L.C.S. ... 38

Military

S.S. Brigade comprising :-

H.C. - Col. J. Durnford-Slater, D.S.O.
(Act. Brigadier).
3rd Commando (Captain A. Komrower)
40th R.M. Commando (Lt.Col. J.C. Manners, R.M.)
Special Raiding Squadron (Major P. Mayne, D.S.O.)

PLAN

- (a) 3 Commando to make initial assault in 6 L.C.A. with Brigade H.Q. in one L.C.A. supported by one L.C.S. on beach one mile west of Termoli.
- (b) 40 Commando, S.R.S. and balance of 3 Commando with ammunition to land in 4 L.C.I. in support.
- (c) 40 Commando and S.R.S. to pass through beach head with objective :-

40 Commando I. Town and Port of Termoli.

S.R.S. I. Road junction and main bridges.

MF THOD

(e.)

S.S. Brigade to be embarked in 4 L.C.I. in Manfredonia on D - 1.

L.C.I.(L) 171 - Brigade H.Q. and 3 Commando L.C.I.(L) 179 - S.R.S. L.C.I.(L) 136) - 40 Commando. L.C.I.(L) 181)

- (b) L.C.I.(L) to take in tow 7 L.C.A. and one L.C.S. and proceed to Rolease Point to arrive at H 75.
- (c) At Release Point L.C.A. to be slipped and close L.C.I.(L) 171 to embark H.Q. and 3 Commando for assault at H hour.
- (d) L.C.I.(L) to beach at H + 30 or on call.

/Sailing Orders \

APPENDIX A1

COMMUNICATION ORDERS for OPERATION "DEVON".

Ships will keel loudsporker watch on 2150 k/cs until zero minus one hours. At zero minus one hours they will shift t. Force Assault and Intercommunication wave, keeping full receiving and transmitting watch.

W/T silence is not to be broken until zer; nour, except in the case of emergency or unless surprise is lost. It must be emphasised that switchin on of a transmitter cause oscillations and, therefore, is liable to be intercepted by energy D/F.

L.C.I.(L) 171 will be in constant on with the forward assault force on 3350 k/cs.

Norce Assault and Interestamication wave ... 2333 Pa/s

	CALLA	TC:B		. <u>/T</u>
171 179 181	-	1 171 1 179 1 131 1 136		GANITET LOBIN STARLING SPARRUM
136 .il ships	-	1 JZJ	-	CONDORS.
THE STREAM				

VISUAL SIGNALLING

From H = 120 significant ore to be constantly on the Bridge.

Care is to be taken over the brilliancy of lanterns. Blue lights only are to be used furing forkness. We lights are to be shown in the direction of the energy coast.

are to be passed from the line by the same metho.

APPENDIX B

PLAN of DIVERSION RY OPERATION "POLYCON"

OBJECT

To cause a diversion by benberling i Montenero Station 6 3/4 miles west of Termeli, giving the enemy cause to believe a larging was being made behind his lines.

INTELLIGENCE

German counter moves towards Terreli on the St. di Montenero/Terreli Ros. about 3 to 1. miles from Terreli.

FORCES EMPLOYED

(a)

L.C.I.(L) 171, 179, 181 and 136.

METHOD

- Ships will weigh at 1710
- (b) Shirs will f m. u in line ahead at 1915
- (c) Ships will croive this side of linearthear of 2000.
- (d) Force will then stem parallel to coast about included, firm broaksites of all purs in rail bursto in to blacks in hills behind.
- (c) LCI (L) 136 dill also make a smoke screen.

FIRE CONTROL

1 Rel Very - "Stan. by" 1 Rel Very - Viru"

1 Whit. Very - "St n' by" 1 Whit. Ory - "Clase fire"

FAKE LANDING SIGNL. 3 From Vorge

Chips then turn in succession yell to starbourd (seawar), 1.0.1.() 136 lints and drops 2 sacks floats to brift own notrods past line Monteners. Also commission of moneys.

COLUNICATION

A common Neval landin; wave will be used. Senior shi, will be known as "Green Leader"; the other 3 L.C.I.(1) will be known respectively as Red Assault, White Assault, Blue Assault. Communication orders and phrases are attached.

ARRENINIALLA

COMMUNICATION ORDERS FOR INVESTIGATIVE OFFICE OF "POLYCOF".

On sailing, ships will set which on Force assault and intercommunication Mays (: 33) W/os).

2. Not allowed to be maintained until sugar bour, except in the case of energony, or enless surprise is that.

ition, f.c.1.(1) 1/1 all coles to be a fixed by the second of the second

"HOD ABBAM TO THE PERSON IN THE TRANSPORT OF THE

4.C.1.(L) 156 will raply a

"अस्त्रात .. १. वर्ष १ / ."

"MATER'S WINDOWS CONTROL OF THE PROPERTY OF TH

L.C. I. (L) lell will regly to

" LOUDT TALL IV. . . . and the contract of the

f.C. 1.(i) 1/1 will then i. to to . . . () . //

"BLADS ADDLESS OF STANDARD FOR A GARAGE STANDARD STANDARD

1,00.1. () 17, mil + 11, -

" William Control of the Height of

1. C. I. () 1/1 1/1 thom 1. 1 to 1. might "

maco m

on not un to Compile, lift to lower our watch on 2196 k/m;